SPORTARREDO® S.p.A.

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Tel. 0421/767676 Fax 0421/767670

CE

RINGO mix

INSTALLATION, USE AND MAINTENANCE MANUAL

USA

Cod.man.:11284.271.2.0 (05/01/06)

Cod.app.:10297.096.0.0 (230V 3~ 60Hz)

INDEX

INDEX OF SECTIONS

1 - GENERAL INFORMATION

1.1 Labels ..... pag. 2
1.2 Introduction 4
1.3 General tanning instructions 4
1.4 Transport and handling 5
1.5 Preparation for installation by the client 5

2 - SAFETY INFORMATION

2.1 General 6
2.2 Noise 6
2.3 Regulations 6

3 - TECHNICAL DATA

3.1 Dimensions and technical data RINGO MIX 7

4 - INSTALLATION

4.1 Pre-installation 7
4.2 Connections 7
4.3 Assembly instructions 8
4.4 Voltage-change 12

5 - USE

5.1 Control board 13
5.2 Safety of the persons exposed to UV 14
5.3 Programming the pre-defined session times 15

6 - ORDINARY MAINTENANCE MADE BY THE CUSTOMER

6.1 Ordinary maintenance 16

7 - EXTRAORDINARY MAINTENANCE MADE BY A SKILLED TECHNICIAN

7.1 Extraordinary maintenance 17
7.2 Periodic control procedure 17

8 - CONTROL BOARD PROGRAMMING

8.1 Programming 19
8.2 Electronic control board connections 23

9 - TROUBLESHOOTING AND RAPID DIAGNOSTICS

9.1 Troubleshooting and rapid diagnostics 24

10 - DEMOLITION AND WASTE MATERIALS

10.1 Waste materials 24
10.2 Demolition of the machine 24

11 - REPLACEMENTS AND CIRCUIT DIAGRAMS

11.1 Spare parts list 25
11.2 Circuit diagrams legend 28

12 - MEDICATION

12.1 Medication 29

13 - WARRANTY

13.1 Limited warranty 29

1 - GENERAL INFORMATION

1.1 LABELS

This device is intended to be used by only one person at a time. Stand in the middle of booth, with body positioned an equal distance from the surrounding lamps.
CAUTION: EXPOSURE POSITIONS OTHER THAN SPECIFIED MAY RESULT IN OVEREXPOSURE AND ARE NOT RECOMMENDED.
Tanning normally begins after one to two exposures and maximizes after one to four (1-4) weeks of exposure following the recommended schedule for your skin type. **Wear protective eyewear.**
Eyewear: SUN GLOBES

Read the instruction booklet before using tanning system.

RECOMMENDED EXPOSURE SCHEDULE

First three sessions should be at 48 hour intervals. Followed by the gradual increasing of exposure times until maximum tanning has occurred (in approximately 4 weeks). MAXIMUM EXPOSURE is 13 minutes.

Skin Type	Week 1 1st - 3rd Session	Week 2 4th - 6th Session	Week 3 7th-9th Session	Subsequent Weekly Session
II	3 min	7 min	9 min	11 min
III	3 min	7 min	10 min	12 min
IV	3 min	8 min	10 min	12 min
V	3 min	8 min	11 min	13 min

This product is in conformity with performance standards for sunlamp products under No. 21 CFR 1040.20.
This device is intended to be used with the following lamps:
Kalfasun 630F 600W
Kalfasun B23-S WHITE 160W

For replacement bulbs, eyewear or parts, contact:
SPORTARREDO USA INC.
200 South Wacker Drive
CHICAGO, IL 60606
(1-866-899-4826)

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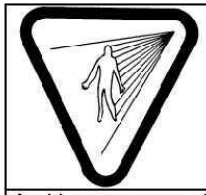

WARNING—ULTRAVIOLET RADIATION—FOLLOW INSTRUCTIONS—FAILURE TO USE PROTECTIVE EYEWEAR MAY RESULT IN SEVERE BURNS OR OTHER EYE INJURY--IF DISCOMFORT DEVELOPS, DISCONTINUE USE AND CONSULT A PHYSICIAN

ATTENTION—RAYONNEMENTS ULTRAVIOLETS—VEUILLEZ SUIVRE LES INSTRUCTIONS—SANS DISPOSITIF DE PROTECTION DES YEUX, CE PRODUIT PEUT CAUSER DES BRÛLURES OU LÉSIONS OCULAIRES GRAVES—SI VOUS SENTEZ UN MALAISE, EN DISCONTINUER L'USAGE ET CONSULTER UN MÉDECIN

Avoid overexposure. As with natural sunlight, overexposure can cause eye and skin injury and allergic reaction. Repeated exposure may cause premature ageing of the skin and cancer.
Medications or cosmetics may increase your sensitivity to the ultraviolet radiation. Consult physician before using sunbed if you are using medications or have a history of skin problems or believe yourself especially sensitive to sun light. If you do not tan in the sun, you are unlikely to tan from use of this product.

Eviter surexposition. Comme avec la lumière naturelle du soleil, la surexposition peut causer lésions aux yeux et à la peau et réactions allergiques. Une exposition repeteé peut causer un vieillissement prématuré de la peau et cancer.
Médicaments et cosmétiques peuvent augmenter vôtre sensibilité aux rayons ultraviolets. Consulter un physicien avant d'utiliser la lampe à ultraviolets si vous utilisez médicaments, si vous avez problèmes de peau ou si vous croyez vous êtes particulièrement sensibles au rayons du soleil. Si vous ne bronzez pas avec le soleil, c'est improbable que vous pouvez vous bronzer en utilisant ce produit.

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- AVVERTENZA: Non usare l' apparecchiatura se i filtri protettivi sono danneggiati o mancano!
- ATTENTION: Do not use the sunbed if the filter glasses are missing or damaged!
- ACHTUNG: Bei defekter oder fehlender Filterscheibe keine Bestrahlung vornehmen!
- ATTENTION: Quand le filtres de protection manque ou sont abîme, n' utilisez pas l' appareil!
- ATENCION: No utilizar el aparato si faltan los filtros protectores o si los mismos estan danados!

Cod.16986.203.0.0

CAUTION!

CONNECT ONLY TO A CIRCUIT PROTECTED BY A CLASS A GROUND FAULT CIRCUIT INTERRUPTER

ATTENTION!

BRANCHER SEULEMENT À UNE DÉRIVATION PROTÉGEÉ PAR UN DISJONCTEUR DIFFÉRENTIEL DE CLASSE A

VALID ONLY FOR CAN/CSA

Cod.16986.200.0.0

WARNING!
DISCONNECT POWER SUPPLY BEFORE OPENING UNIT

ACHTUNG!
VOR DER ÖFFNUNG DES GERÄTES SICH VERGEWISSERN, DASS DIE ELEKTRIZITÄT ABGESCHALTET IST

ATTENTION!
AVANT D' OUVRIR D' APPAREIL, S' ASSURER QU' IL AIT ETE COUP LA TENSION D' ALIMENTATION

CUIDADO!
ANTES DE ABRIR EL APARATO HAY QUE ASEGURARSE DE QUE ESTE CORTADA LA TENSIÓN DE ALIMENTACIÓN

ATTENZIONE!
PRIMA DI APRIRE L' APPARECCHIO ACCERTARSI CHE SIA STATA TOLTA LA TENSIONE DI ALIMENTAZIONE

Cod.16986.001.0.0

WARNING:
GROUNDING CIRCUIT CONTINUITY IS VITAL FOR SAFE OPERATION OF EQUIPMENT. NEVER OPERATE EQUIPMENT WITH GROUNDING CONDUCTOR DISCONNECTED.

AVERTISSEMENT:
POUR UN FONCTIONNEMENT SÛR, NE JAMAIS, UTILISER CET APPAREIL QUAND LE CONDUCTEUR DE MISE A LA MASSE EST DÉCONNECTÉ.

Cod.16986.137.0.0

WARNING:
HIGH LEAKAGE CURRENT- -ENSURE PROPER GROUNDING.

AVERTISSEMENT:
COURANT DE FUITE ELEVE- -FOURNIR UNE MISE A LA TERRE EFFICACE

Cod.16986.138.0.0

1 - GENERAL INFORMATION

1.2 INTRODUCTION

IMPORTANT

BEFORE OPERATING THE MACHINE, READ THE INSTRUCTIONS CONTAINED IN THIS OPERATING MANUAL CAREFULLY AND COMPLETELY.

KEEP THIS MANUAL AND ALL ENCLOSURES IN AN ACCESSIBLE PLACE WHERE IT CAN BE REFERRED TO BY ALL USERS (OPERATORS, MAINTENANCE PERSONNEL AND THOSE CLIENTS WHO ASK FOR DETAILED INFORMATION).

This Technical Manual is designed for use by installers and operators, and should be read carefully and completely before the machine is operated. The manual should always be available for reference and should be kept in a safe place so that it stays in good condition for future reference. For further copies or updates of the manual, contact the manufacturer at the address on the front page.
Sportarredo SpA reserves the right to make changes to the product and to the manual without being obliged to update the preceding manuals.
This manual contains all the instructions and information necessary to operate the machine:

- Correct installation of the machine.
- Description of the functions of the machine.
- Circuit diagrams.

The installers and the operators can use this manual to understand the characteristics of the machine and to learn the correct operating procedure.

1.3 GENERAL TANNING INSTRUCTIONS

DANGER! Ultraviolet Radiation.
Follow instructions. Avoid overexposure. As with natural sunlight, overexposure can cause eye and skin injury and allergic reactions. Repeated exposure may cause premature ageing of the skin and skin cancer.
WEAR PROTECTIVE EYEWEAR; FAILURE TO MAY RESULT IN SEVERE BURNS OR LONG-TERM INJURY TO THE EYES.
Medications or Cosmetics may increase your sensitivity to the ultraviolet radiation. Consult physician before using sunbed if you are using medications or have a history of skin problems or believe yourself especially sensitive to sunlight. If you do not tan in the sun, you are unlikely to tan from the use of this product.
This device is intended to be used by only one person at a time. Stand in the middle of booth, with body positioned an equal distance from the surrounding lamps.
CAUTION: EXPOSURE POSITIONS OTHER THAN SPECIFIED MAY RESULT IN OVEREXPOSURE AND ARE NOT RECOMMENDED.
Tanning normally begins after one to two exposures and maximizes after one to four (1-4) weeks of exposure following the recommended schedule for your skin type.

Skin type II.
This is the individual that usually burns easily and severely. Tans minimally or lightly and peels.
Skin type III.
Often referred to as “average” complexion burns moderately and tans about average.
Skin type IV.
This individual burns minimally, tans easily and above average.
Skin type V.
This individual’s system rarely burns, tans easily and substantially.

Session times are calculated for a supply voltage of 208V.
This product is in conformity with performance standards for sunlamp products under No.21 CFR 1040.20.

RECOMMENDED EXPOSURE SCHEDULE

First three sessions should be at 48 hour intervals. Followed by the gradual increasing of exposure times until maximum tanning has occurred (in approximately 4 weeks). MAXIMUM EXPOSURE is 13 minutes.

Skin type	Week 1 1st-3rd Session	Week 2 4rd-6rd Session	Week 3 7rd-9rd Session	Subsequent Weekly Session
II	3 min.	7 min.	9 min.	11 min.
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IV	3 min.	8 min.	10 min.	12 min.
V	3 min.	8 min.	11 min.	13 min.

This schedule is intended to be used with the following lamps: (standard configuration)
Kalfasun B23-S WHITE 160W
Kalfasun 630F

1.4 TRANSPORT AND HANDLING

The machine is carefully protected and loaded onto pallets before shipping. The various parts of the machine must never be transported or stored in positions which differ from the positions in which they are shipped. In this case, the warranty shall be null and void.
The machine must be handled with care in order to prevent the risk of damage to the packaged sections. All handling operations should be carried out by authorised and trained personnel. When the machine is delivered, immediately check that the packaging material is whole and that no damage has occurred during transport.
Any damage to the machine must be notified to the carrier not later than **eight calendar days** from the date of delivery. If internal damage is suspected, it is advisable to accept the machine reserving the right to check accordingly.

THE CARRIER IS RESPONSIBLE FOR ANY DAMAGE OCCURRING DURING TRANSPORT OF THE MACHINE. SPORTARREDO WILL MAKE EVERY EFFORT TO ASSIST THE CLIENT IN SUCH CASES

ALL MAINTENANCE OF THE MACHINE MUST BE PERFORMED BY SPECIALIZED TECHNICIANS FROM SPORTARREDO OR BY PERSONS AUTHORIZED BY SPORTARREDO USA INC.

IMPORTANT !
ALWAYS DISCONNECT THE MACHINE FROM THE POWER SUPPLY BY PRESSING THE SWITCH BREAKER BEFORE CARRYING OUT MAINTENANCE

1.5 PREPARATION FOR INSTALLATION BY THE CLIENT

Unless otherwise expressly specified in the contract, the following must be provided by the client:

- Connections to the electrical circuit, including the protective wire generally referred to as the "EARTH CONNECTION", unit feeding cable, power plug and circuit breaker.
- Canalization system for the emission of hot air.
- External air intake.
- All tools and equipment necessary for installation.

THE UNIT IS SUPPLIED FOR INPUT VOLTAGE AT 230V 3phase 60 Hz
AND IT IS SUPPLIED WITHOUT THE FEEDING CABLE
To make a power cable connection or voltage-change, make reference to the chapter "INSTALLATION" paragraph " VOLTAGE-CHANGE " and to the RINGO MIX n°1/10 electrical diagram.
These operation must be done by technical personnel.

THE BREAKER MUST BE INSTALLED IN THE POWER SUPPLY BOARD OF THE ESTHETICAL CENTRE AND IT MUST BE DONE BY THE CENTRE ITSELF.
Mod. RINGO MIX:
3x50A-30mA to feed 230V 3phase 60Hz
The installation must be done by technical personnel.

THE POWER SUPPLY CONNECTION (UNIT-BOARD) MUST BE DONE BY THE CENTRE. THE SKILLED TECHNICIAN MUST USE A CERTIFIED CABLE WITH THE PROPER SECTION AND WITH ADEQUATE MECHANICAL PROTECTION, IN ACCORDANCE WITH THE RULES IN FORCE.
SEE CAHAPTER 3.1 TABLES FOR TECHNICAL DATA "POWER SUPPLY CABLE SECTION"

PLEASE CONTACT THE CUSTOMER SERVICE AT PHONE NUMBER
1-866-899-4826 FOR ANY FURTHER DOUBT

Before the evening closing, or the closing for a prolonged period you should operate on the breaker in order to disconnect the power supply.

TO HAVE A CORRECT USE OF THE EQUIPMENT, THE ROOM TEMPERATURE **MUST NOT EXCEED THE 86℉ DEGREES.** IF ROOM TEMPERATURE EXCEEDS THIS VALUE, WE SUGGEST TO UTILIZE AN AIR-CONDITIONING UNIT.

2 - SAFETY INFORMATION

2.1 GENERAL

The employer must ensure that the persons assigned to the operation of the machine receive adequate training concerning possible accident risks, the devices fitted for the safety of the operator and the client, the risks associated with the emission of UV light and the general accident-prevention regulations specified by international norms and local legislation.

Those responsible for operation, maintenance, cleaning and control of the machine must adhere strictly to the accident-prevention regulations applicable in the country in which the machine is installed.

Before operating the machine, the operator must be completely familiar with the position and the function of all the controls and with the characteristics of the machine. The operator must read this manual carefully and completely.

The machine must be operated by fully-qualified operators only.

Removal of the **safety devices** and protective barriers is strictly forbidden.

No heavy weights must be placed on the moving parts of the machine. The ventilation ducts and intake grilles must not be obstructed by foreign bodies.

The machine must always be switched off and disconnected from the power supply before performing any routine or special maintenance operations.

Unauthorised replacement of or repairs to any part or section of the machine, or the use of accessories or material that are not original or recommended by the manufacturer, may represent a risk of injury, and exonerate the manufacturer from all civil or penal liability.

It is forbidden to stay near the appliance while it is operating without eye protection.

"DANGEROUS ZONES": any zone internal to or in the vicinity of the machine in which the presence of an exposed person constitutes a risk for the safety and the health of that person.

"EXPOSED PERSON": any person who is wholly or partly in a dangerous zone.

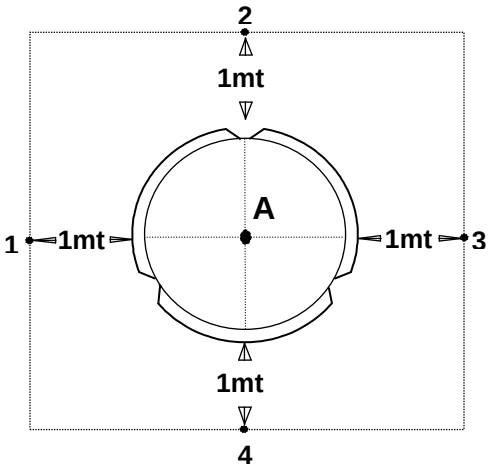
"OPERATOR": person or persons assigned to the installation, operation, adjustment, maintenance, cleaning, repair and transport of the machine.

2.2 NOISE

The machine is designed and built in such a way as to reduce operational noise as follows:

- Effective normalized sound power during operation, see diagram below
  1 - **2** - **3** - **4** - = 77 dB (A) max
- Effective sound pressure with simulation of the actual position of the person being treated
  A = 79 dB (A) max.

The figures shown above have been determined according to ISO 3746.



2.3 REGULATIONS

Standards for safety of Luminaires, UL 1598 - 1st Ed. & Standard for Portable Sun/Heat Lamps, UL 482-8th Ed. & Standard for Radiation Heaters and Infrared and Ultraviolet Lamp Assemblies for Cosmetic or Hygienic Purposes in Nonmedical Applications, CAN/CSA-C22.2 No.224-M89-Rev. 1999/01/01.

In the planning of this unit the following rules and provisions of the European Community have been taken in consideration:

ECC Directive N. 91/368 dated 20.06.91, N.93/44 dated 14.06.1993, N.93/68 dated 22.07.93.

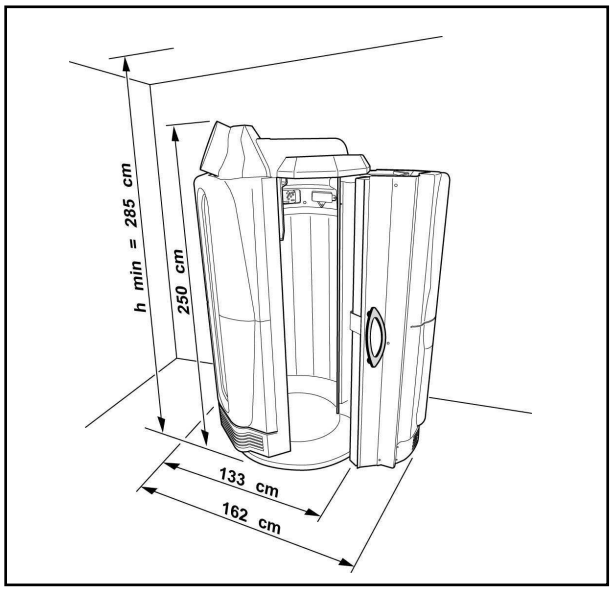
ECC Directive N.73/23 dated 19.02.73 known as "low voltage directive".

ECC Directive N.89/336 dated 03.05.1989 known as "Electronic compatibility directive".

En 60335-2-27 II part Special standard for units for the treatment of the skin with ultraviolet and infrared rays for home use and similar use.

3 - TECHNICAL DATA

3.1 DIMENSIONS AND TECHNICAL DATA



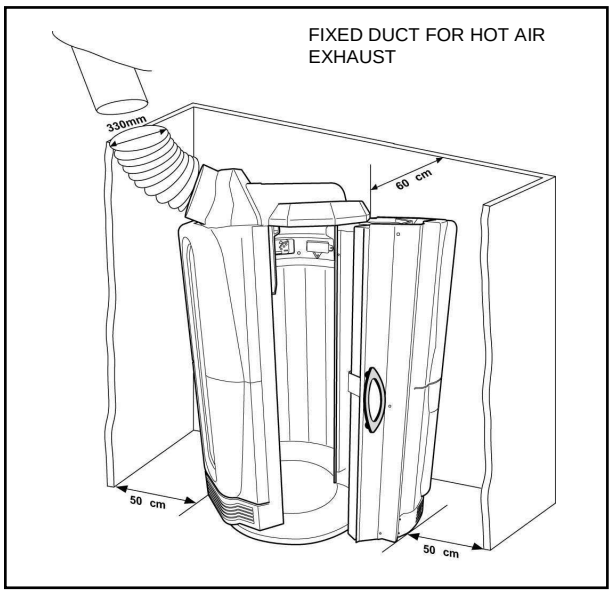
MINIMUM HEIGHT FOR CEILING	285 cm
HEIGHT	250 cm
WIDTH	133 cm
WIDTH WHIT OPEN DOOR	162 cm
WEIGHT	580 Kg

RINGO MIX	U.M	DATA
POWER SUPPLY	V	230V 3ph
NOMINAL POWER	KW	16,2
NOMINAL CURRENT	A	42,3
POWER FACTOR CORRECTION		0,96
FREQUENCY	Hz	60
NUMBER OF WIRE REQUIRED		4
SECTION OF POWER CABLE	AWG	7
EXHAUST AIR FLOW	m³/h	3700
HEAT PRODUCED	Kcal/h	12900
HEAT EXPELLED	Kcal/h	7700
LAMPS TYPE	N.	18 KALFASUN 630F
LAMPS TYPE	N.	24 KALFASUN B23-S White 160W

UV EMISSION
SEE RAY EMISSION CERTIFICATE

4 - INSTALLATION

4.1 PRE-INSTALLATION



In order to ensure correct operation of the machine, it should be installed in an area which has been prepared as shown in the figure.
The connection of the exhaust air pipe must have on the first part (50-60 cm / 19"-23" inch from the edge of the fan) the minimum curving. This device has to be done to reduce the noise of the fan caused by the resistance of the hair, to improve the cooling of the lamps and to have a better air flow during the tanning session.

4.2 CONNECTION

The area in which the machine is installed **must be adequately ventilated, fit the area with an air intake from outside if necessary**. To improve the technical comfort we suggest to connect the tube to expel the hot air to a fixed duct to expel the air outward

- The metal structure of the machine is earthed by means of insulated wires connected to the earth terminal in the electrical junction box.
- The earth circuit must be in full compliance in accordance with the rules in force.
- The earth connection must also be fitted to low-voltage systems situated in wet or very damp areas (if the voltage to earth is in excess of 25V for alternating current or 50V for direct current).
- The earth wires connected to every part of the various sections of the machine and the earth wires from the various power circuits and user groups must be connected to a single earthing circuit.
- Ensure that the materials used for the earth system are suitably robust and provided with adequate protection.
- The connection to the main earth terminal should be as short as possible. The earth wires should not be subjected to mechanical stress of any kind, and must be protected against corrosion.

4.3 ASSEMBLY INSTRUCTIONS

SEE TABLES ENCLOSED

1 - Put the circular base **A** on floor and put it at level by regulating the ball-wheels **A1** and the fixed base foot **A2**. Table 1.
2 - Lay the base plate **A** on the rotation ring **B** as shown in the table 1.
3 - Put the semishell **C** (whiteout boxes) on the base **A** following the indications reported on the table 2.
To make the assembling it's advisable to lift up the semi-housing using a rope to be connected to the specific rings. Once the assembling is ended, remove the rope from the rings **I**. Table 2
4 - Put the nut on the guide **D** and thread from below 2 screws M8x25 **E** securing screws of the semishell. Table 2.
5 - Block the semishell **F** on the base in the same way of semishell **C.** Table 2.
6 - Block the securing plaque **G** of semishells with 4 M8x20 screws respecting the indications of position reported (plaque perimeter is indicated with a black marking pen). Table 2.
7 - Insert the door on journal **H.** Table 2.
8 - Lay the fixing clamp **L** of the door without fixing it completely. Table 2.
9 - Fix the metal cover **M** to the semishell which have been set up. Table 3.
10 - Place the fan **N** figttening the two M6x20 screws. Table 3.
11 - Fix the handles **O** on the cap **M** being careful to the handle placed near the door that has to be fixed removing the radio plastic cover.
12 - Assemble all the boxes marked with the numbers in the specific places of the three semishell and then connect the **W** black plugs and the white plug terminals **SP** making attention to properly tighten the screw of the female terminal board placed in it. Table 4.
13 - Connect the following connectors:
- From the left half-shell to the door (grey connector).
- From the right half-shell to the left half-shell (6 poles connector).
- From the right half-shell to the fan (5 poles black connector).
- Connect the red female coming out plug from the right half-shell to the proper red male plug of the tie alarm placed on the metallic cap **N**.
- Connect the red faston of the red and black twin-lead to the loudspeaker sound boxes.
- Connect the red plug to the telescopical antenna radio.
- Connect the white terminal plug (2 poles) to the alarm placed on the plastic cap **Q**.
14 - Connect the feeding cable to the feeding terminal board. Table 5.
15 - Install the plastic cap **Q** fixing it with the 3 hexagonal nuts M6 and the cover plastic parts **R**. Table 6.
16 - Assemble the cover sole bars **T** on the joint of the covers in the upper part. Table 6.

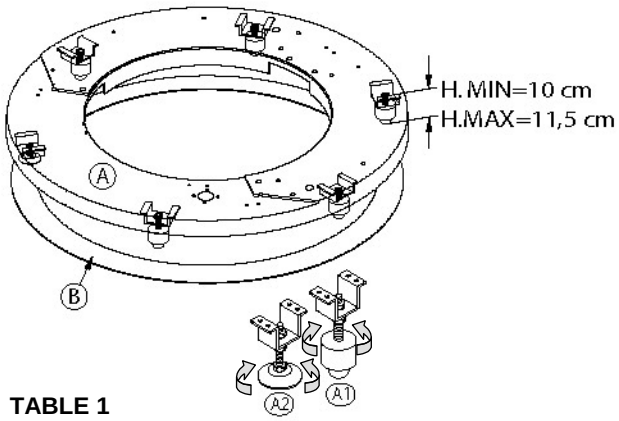


TABLE 1

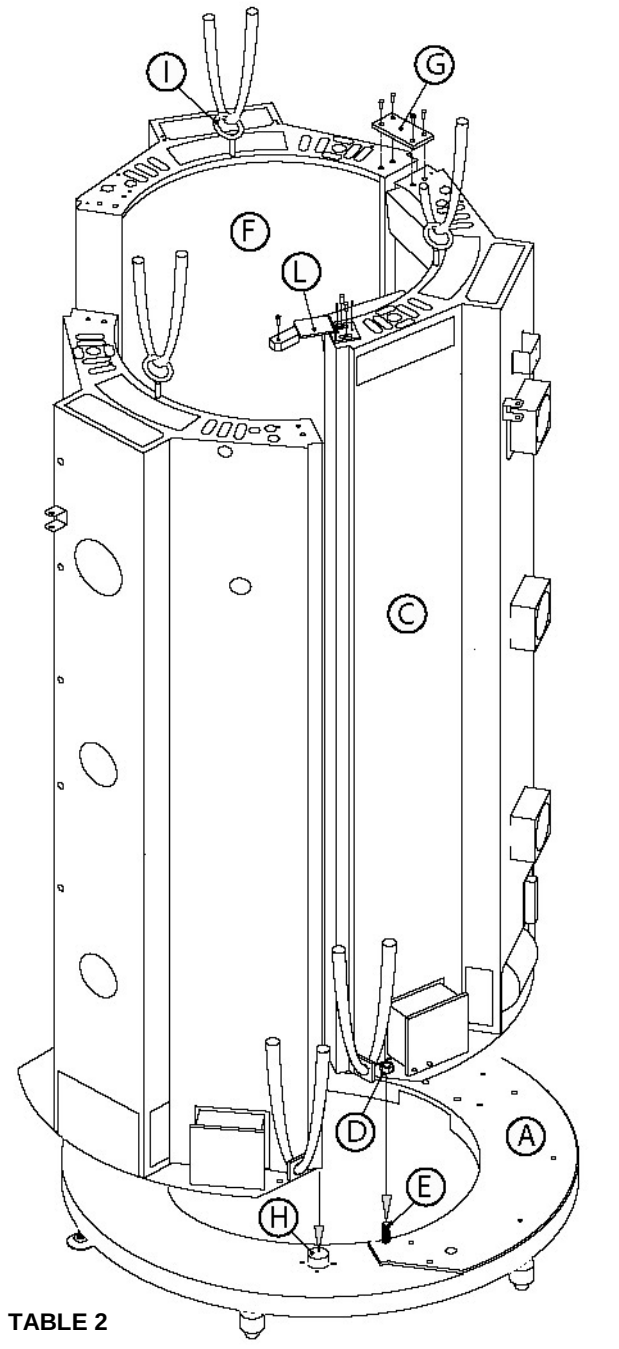


TABLE 2

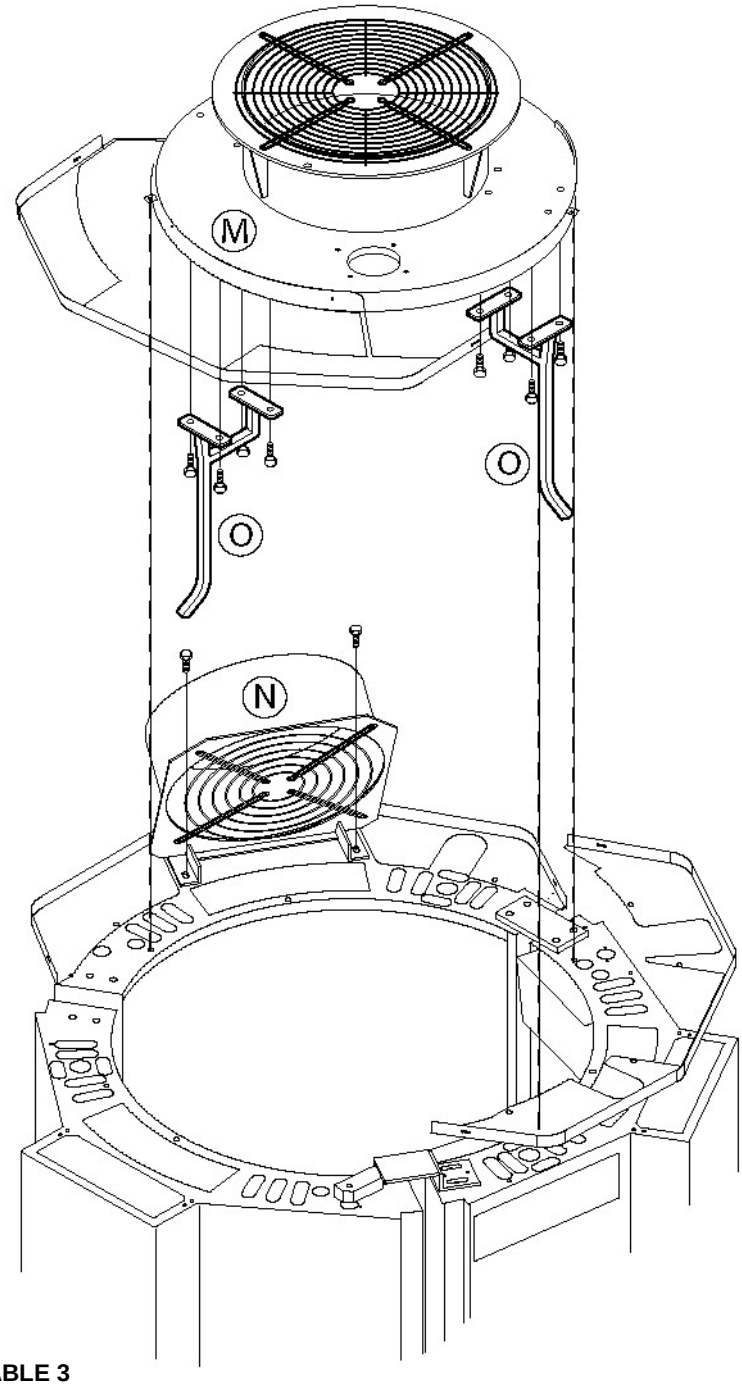


TABLE 3

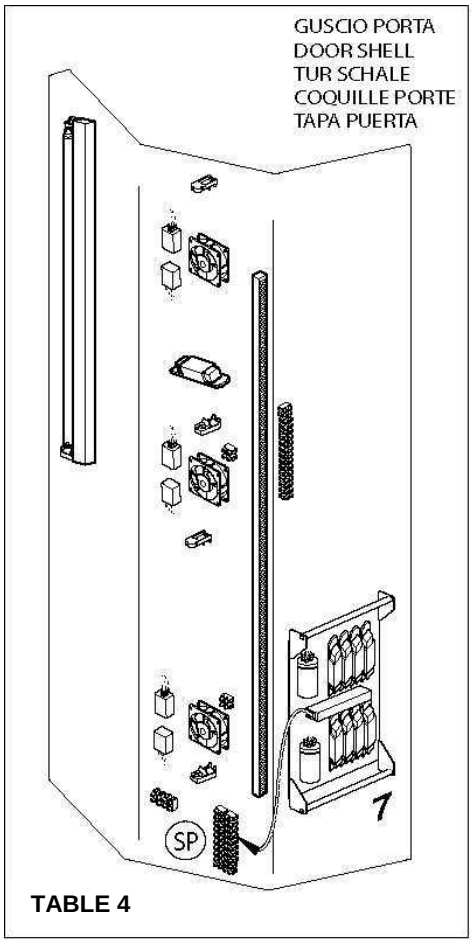
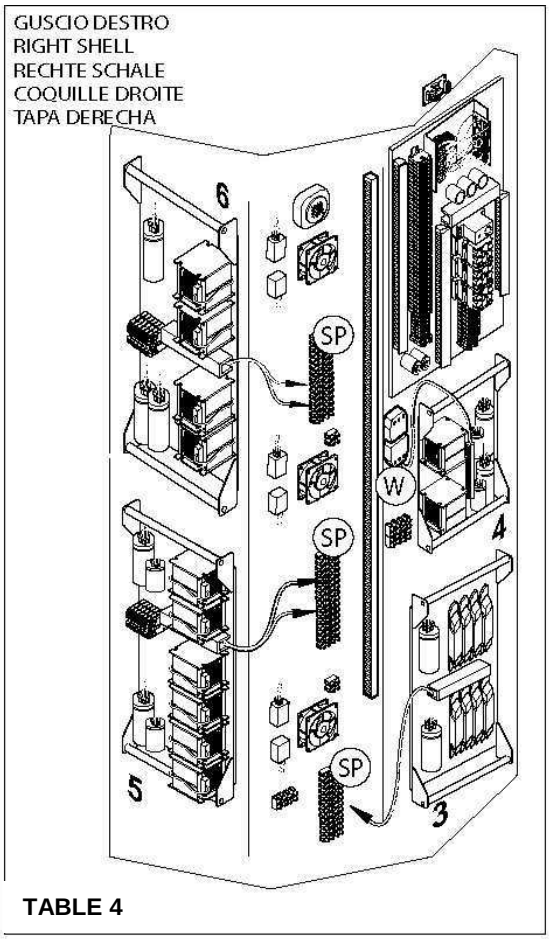


TABLE 4



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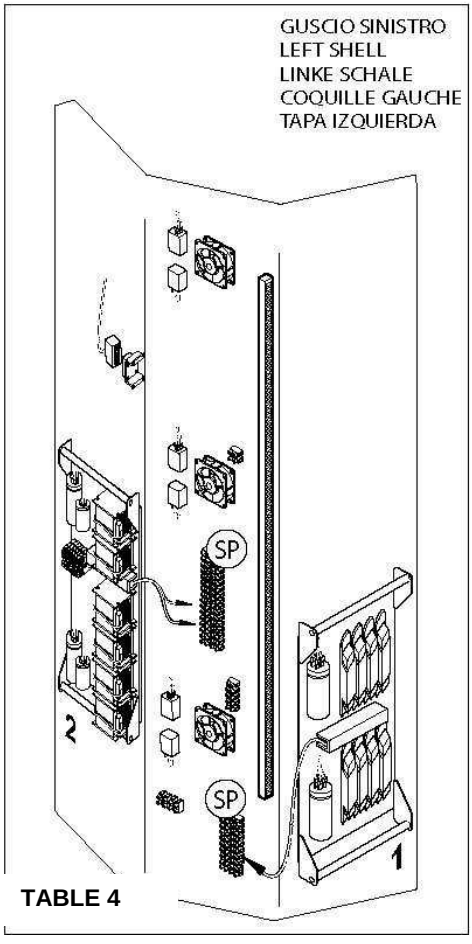

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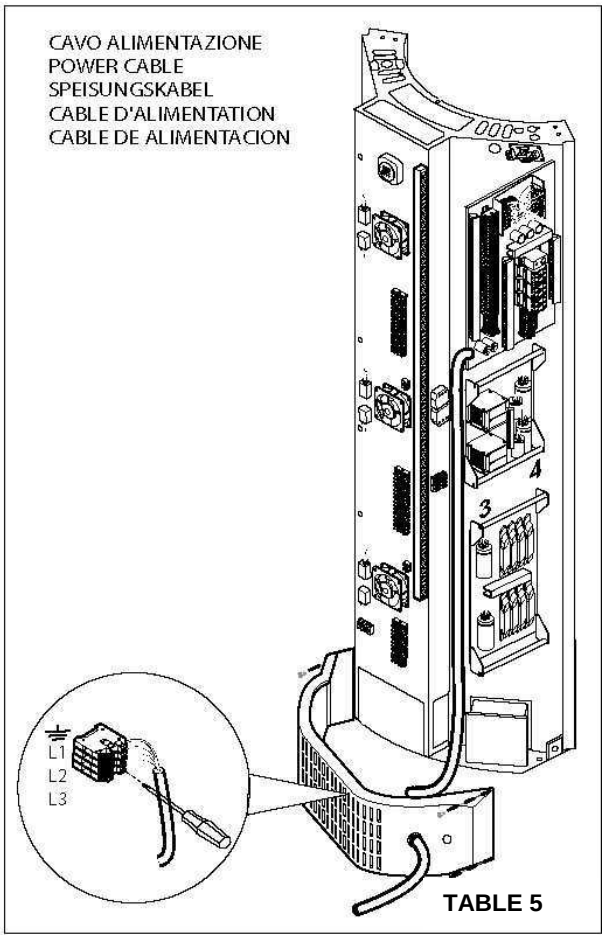


TABLE 5

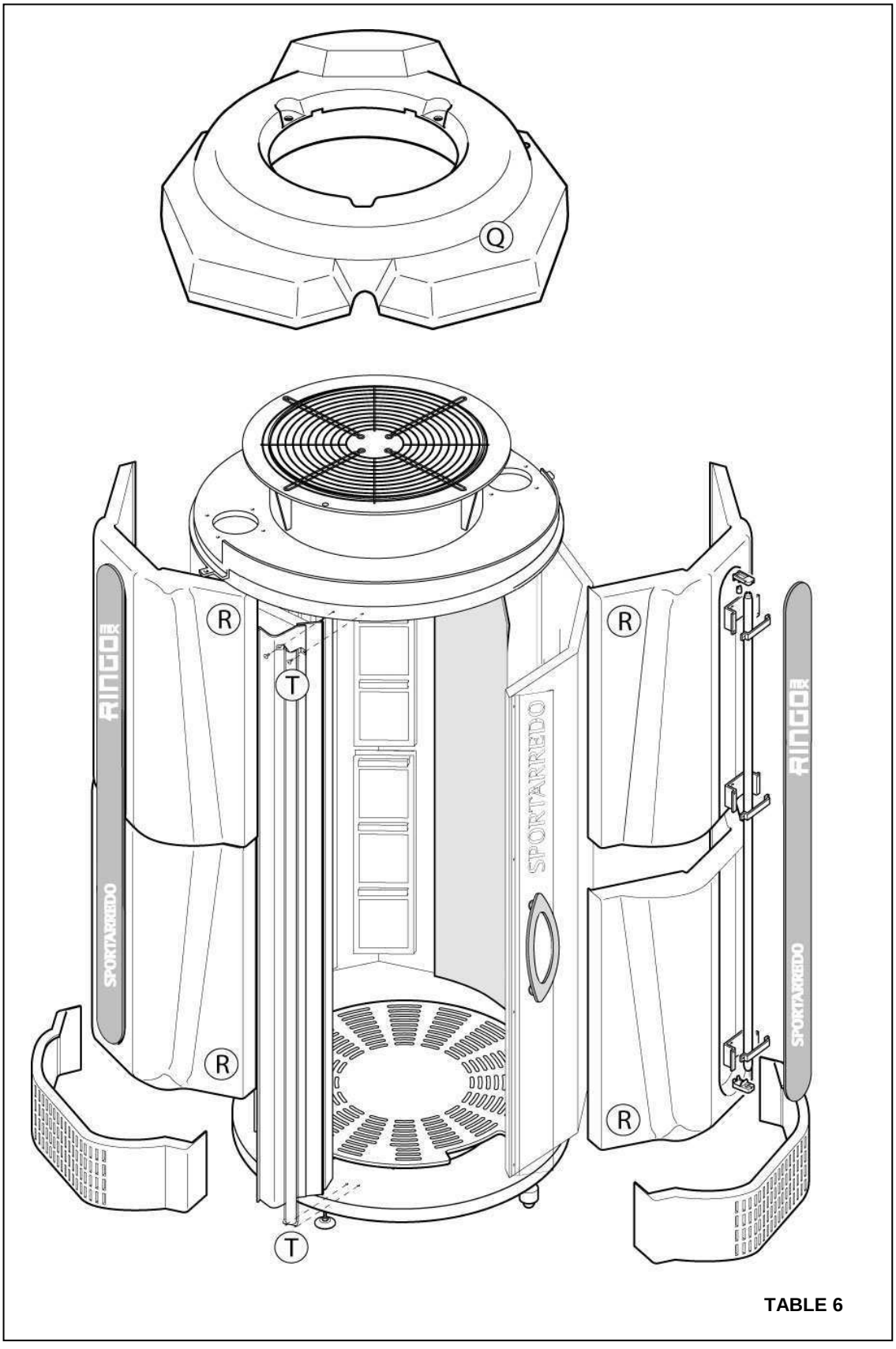


TABLE 6

4.4 VOLTAGE CHANGE

To enter the terminal board for power supply, placed inside the control sheet in the right shell, make reference to table 5.

IMPORTANT !

ALWAYS DISCONNECT THE MACHINE FROM THE POWER SUPPLY BY PRESSING THE SWITCH BREAKER BEFORE CARRYING OUT MAINTENANCE

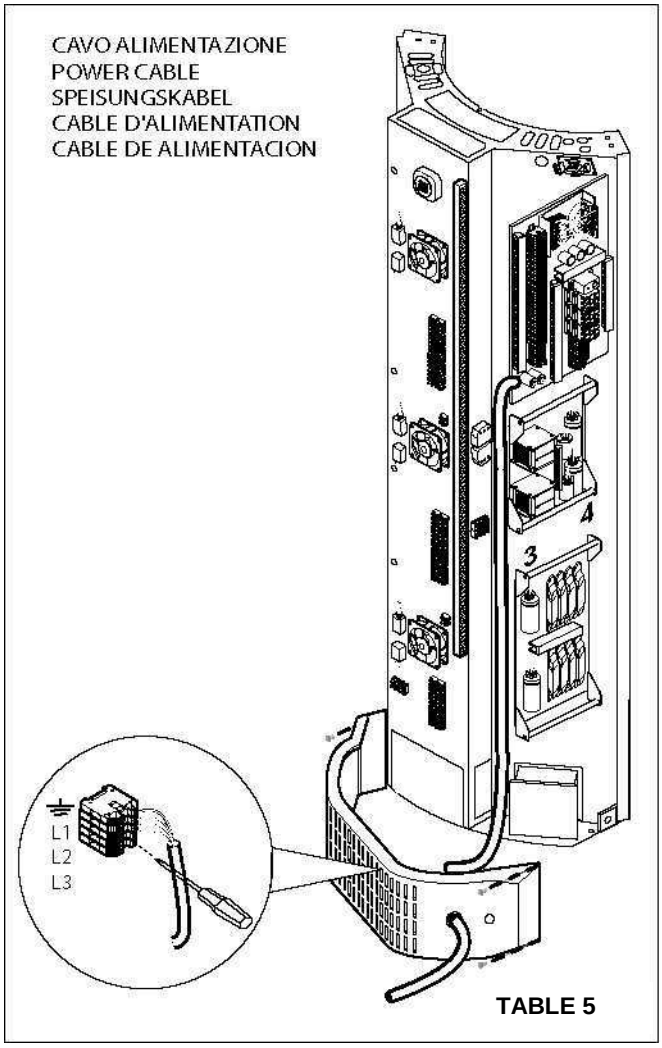
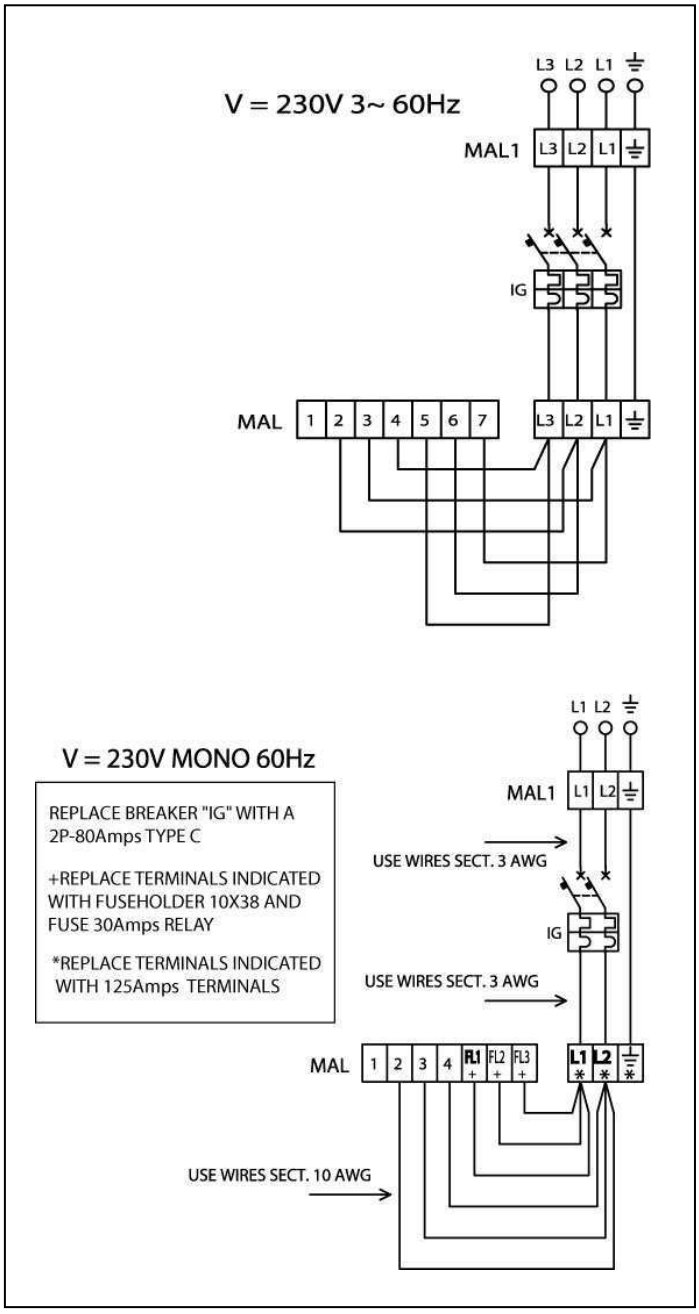
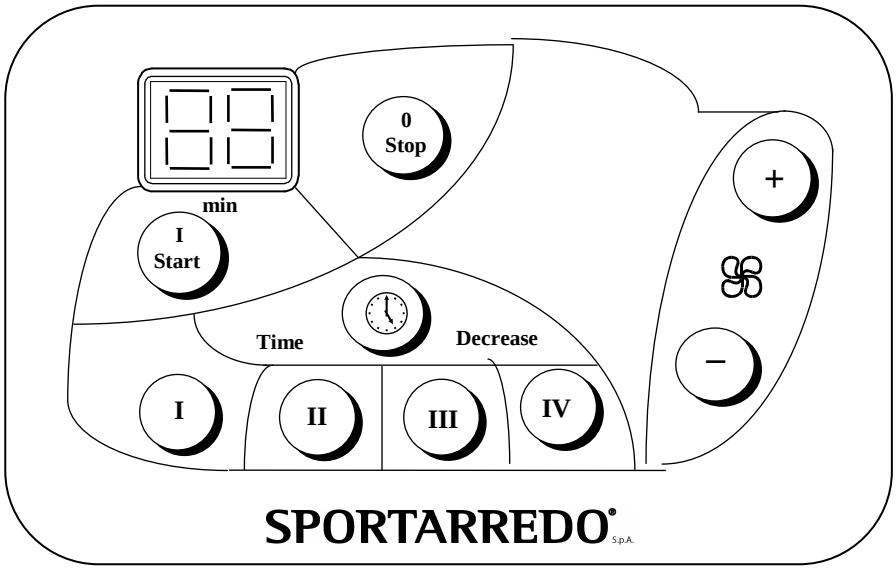


TABLE 5


V = 230V 3~ 60Hz
L3 L2 L1
MAL1
IG
MAL 1 2 3 4 5 6 7
V = 230V MONO 60Hz
REPLACE BREAKER "IG" WITH A 2P-80Amps TYPE C
+REPLACE TERMINALS INDICATED WITH FUSEHOLDER 10X38 AND FUSE 30Amps RELAY
*REPLACE TERMINALS INDICATED WITH 125Amps TERMINALS
L1 L2
USE WIRES SECT. 3 AWG
USE WIRES SECT. 10 AWG
RL1
FL2
FL3

5 - USE

5.1 CONTROL BOARD



I Start — When the START button is pressed, the tanning lamps are switched on.

– — Body ventilation regulator.

+

0 Stop — When the STOP button is pressed, the tanning lamps are switched off.

The time button is used to decrease the duration of the treatment after the unit has been turned on. At each pressure of the button there's a decrease of 1 minute.

Pushing the undermentioned buttons you enter the programme following the customer skin type and how long does it need to tan.

I II III IV

The machine is equipped with a radio, so that the client can listen to music during the tanning session. The use of headphones is recommended.

PL This display lights when the appliance has been operated for 100 hours to indicate that routine maintenance must be performed.

SL This display lights when the appliance has been operated for 400 hours to indicate that it is necessary to call a qualified technician for special maintenance.

ATTENTION!

At the end of each session a lamp placed in the right side of the solarium will be left switched on in order to avoid the momentary blindness due to a sudden change from light to total darkness.

5.2 HOW TO GUARANTEE THE SAFETY OF THE PERSONS EXPOSED TO UV

Don't use the unit in case of filter damages and timer faults!

ATTENTION!
AN IMPROPER OR INCORRECT USE OF THE UNIT CAN CAUSE SERIOUS BODILY DAMAGES TO THE PERSON EXPOSED!

From a careful analysis, as specified in **EN 60335-2-27**, the precautions that must be observed are listed below.

1) If the client is undergoing treatment using medication, such as antibiotics or anti-inflammatory pharmaceuticals, it is advisable to suspend tanning sessions.. In any case, it is advisable to consult a doctor.
2) Before a tanning session, the skin should be clean and free of cosmetics or perfumes.
3) Be sure not to exceed the exposure times selected by the staff of the tanning centre.
4) Always use the special protective eyewear. The eyes must under no circumstances remain open during the tanning session.
5) After each tanning session, it is advisable to apply a moisturising cream.

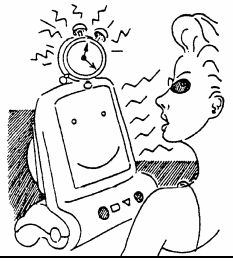
It's advisable to:
- Not exposure any part of the body more than one time per day.
- Not exposure to the unit and sun in the same day.
- Do not expose yourself to the appliance if you usually burn with normal sunlight or if you suffer from sun-rash.
- Do not make UV session in case of pregnancy. In any case please consult your own attending physician before making the session.
- Do not expose to UV immediately after depilation treatments.
- Do not expose children or adults that are prone to or are suffering (or have previously suffered) from skin neoplasia.
- Consult the physician if on the skin swellings, ulceration's or red spots appear.

ATTENTION!
- **Ultraviolet radiation may cause injury to the eyes and skin, such as skin ageing and eventually skin cancer.**
- **Read instructions carefully.**
- **Wear the protective goggles provided.**
- **Certain medicines and cosmetics may increase sensitivity.**

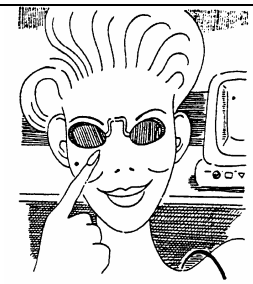
A copy of the following warnings is supplied with the manuals and must be shown to the public close to the unit.

1

2



3



4

5

5.3 PROGRAMMING THE PRE-DEFINED SESSION TIMES

The electronic control of solarium permits to programme 4 pre-defined sessions time . Their programming should be carried out as follows:

Switch on the solarium and press the **Time** key and then key **2** in sequence and keep them pressed for about four seconds until P4 is displayed.
With ventilation keys **+** or **–** choose the function to be modified or displayed.

Parameters	Display	Value
Session time in minutes for skin type 4	P4	1-40
Session time in seconds for skin type 4	S4	0-59
Session time in minutes for skin type 3	P3	1-P4
Session time in seconds for skin type 3	S3	0-59
Session time in minutes for skin type 2	P2	1-P3
Session time in seconds for skin type 2	S2	0-59
Session time in minutes for skin type 1	P1	1-P2
Session time in seconds for skin type 1	S1	0-59

P4-SESSION TIME IN MINUTES FOR SKIN TYPE 4. IV (Mediterranean) .
The **start** key displays the data relating to the function to be modified or read.
The ventilation keys **+** or **–** modifies the value according to the table.
The **stop** key confirms the value and exits the function.
The next function, i.e. S4, is displayed.

S4-SESSION TIME IN SECONDS FOR SKIN TYPE 4. IV (Mediterranean) .
The same procedure as per function P4 is repeated.
When exiting, P3 is displayed.
P3- SESSION TIME IN MINUTES FOR SKIN TYPE 3. III (European dark skin).
The same procedure as per function P4 is repeated.
When exiting, S3 is displayed.
S3- SESSION TIME IN SECONDS FOR SKIN TYPE 3. III (European dark skin).
The same procedure as per function P4 is repeated.
When exiting, P2 is displayed.
P2- SESSION TIME IN MINUTES FOR SKIN TYPE 2. II (European fair skin).
The same procedure as per function P4 is repeated.
When exiting, S2 is displayed.
S2- SESSION TIME IN SECONDS FOR SKIN TYPE 2. II (European fair skin).
The same procedure as per function P4 is repeated.
When exiting, P1 is displayed.
P1- SESSION TIME IN MINUTES FOR SKIN TYPE 1. I (Celtic).
The same procedure as per function P4 is repeated.
When exiting, S1 is displayed.
S1- SESSION TIME IN SECONDS FOR SKIN TYPE 1. I (Celtic).
The same procedure as per function P4 is repeated.
When exiting, rF is displayed.

At this point, programming has been completed.
To return to normal operation, switch off and reset.

The pre-defined session times by the manufacturer are consistent with those indicated on the recommended exposure programs.
At each pressure of the “time decrease” button, the initial session time will be decreased of 1 minute; pushing again you can obtained in a decreasing way all the session times scheduled by the exposure programs.

6 - ORDINARY MAINTENANCE MADE BY THE CUSTOMER

6.1 ORDINARY MAINTENANCE

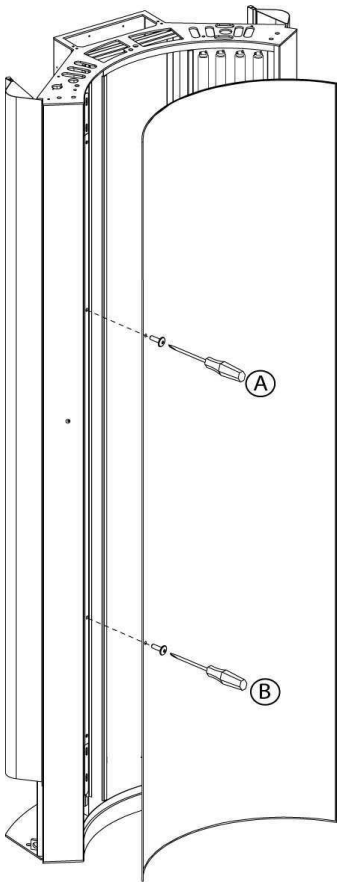
IMPORTANT !
ALWAYS DISCONNECT THE MACHINE FROM THE POWER SUPPLY BY PRESSING THE BREAKER SWITCH BEFORE CARRYING OUT MAINTENANCE

IMPORTANT!
USE ONLY THE DISINFECTANT CLEANSING MULTYSAN TO CLEAN THE ACRYLIC AND FOOT-BOARD
N.B. DO NOT USE ALCOHOL OR ALCOHOL-BASED PRODUCTS FOR CLEANING

REMOVING AND CLEANING THE ACRYLIC PANEL AND LAMPS
To make the cleaning of the acrylic and lamps it's necessary to make the disassembling as follows:
Unscrew the 2 screws **AB** to rapid release as show in sequence holding acrylic.

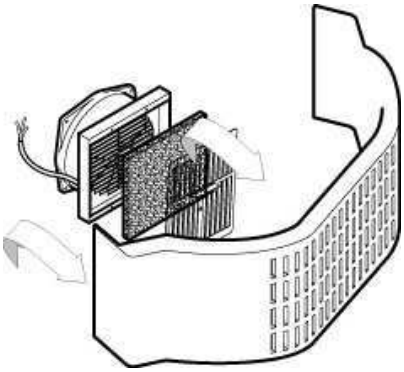
FILTERS USED IN THIS APPLIANCE:
Cobalt filter 230x75mm

REFLECTORS USED IN THIS APPLIANCE: R630



ANY TAMPERING WITH THE APPLIANCE OR THE USE OF NON-ORIGINAL MATERIAL OR PARTS MAY LEAD TO INJURY. IN SUCH CASES, THE MANUFACTURER DECLINES ALL CIVIL AND PENAL LIABILITY, AND THE WARRANTY SHALL AUTOMATICALLY BE CONSIDERED NULL AND VOID.

CLEANING THE AIR FILTERS
Remove the metallic cover and extract the black filter.
Filters should be cleaned using a jet of compressed air or a vacuum cleaner as an alternative.
The filters should be replaced every month of operation.



THE FILTERS SHOULD BE CLEANED EVERY WEEK OF OPERATION

PL PILOT LAMP FOR ROUTINE MAINTENANCE
Every 100 hours of operation the letters PL appear on the appliance display alternating with the session time. This means that routine maintenance, consisting of cleaning of internal and external filters of the appliance, should be carried out.
The luminous signal is turned off by the following procedure:
- press key **Time** and **I** at the same time, until the pilot lamp **PL.** appears;
- press key **Start** (the point disappears);
- press again key **Start** (PL flashing);

Now the resetting procedure begins and is shown by the fast flashing of the pilot lamp.
When the flashing stops, **PL** appears again;
- to return the machine to normal operational status, turn the electrical power off and then back on.

The resetting procedure is finished.
This procedure should be carried out with the appliance in pause mode.

7 - EXTRAORDINARY MAINTENANCE MADE BY A SKILLED TECHNICIAN

7.1 EXTRAORDINARY MAINTENANCE

SL PILOT LAMP FOR SPECIAL MAINTENANCE

Every 400 hours of operation the letters SL appear on the appliance display alternating with the session time. This means that the following extraordinary maintenance operations should be carried out:

- Cleaning of internal and external acrylics.
- Replacement of high-pressure lamps.
- Check that the timer system is working correctly.
- Check that the USE instructions are legible and in satisfactory condition.
- Every 800 working hours replace the igniters for the high-pressure lamps. Clean the filters, fans and the inside of the machine.
- Every 1200 working hours replace the acrylics.

The luminous signal is turned off by following the procedure below:

- press key **Time** and **I** at the same time, until the pilot lamp **PL.** appears;
- press key **+** appears **SL.** ;
- press key **Start** (the point disappears);
- press again key **Start** (SL flashing);

Now the resetting procedure begins and is shown by the fast flashing of the pilot lamp.

When the flashing stops, **SL** appears again;

- to return the machine to normal operational status, turn the electrical power off and then back on.

The resetting procedure is finished.

This procedure should be carried out with the appliance in pause mode.

7.2 PERIODIC CONTROL PROCEDURES

Electrical checks. Check that the electrical safety devices, and the acoustic/illuminated signal devices and alarms are undamaged and that they function correctly. Check that the equipment and devices in the electrical control box are in satisfactory condition.

These checks must be performed by qualified personnel

IMPORTANT !
ALWAYS DISCONNECT THE MACHINE FROM THE POWER SUPPLY BY PRESSING THE BREAKER BEFORE CARRYING OUT MAINTENANCE

CHECK OF THE BLUE COBALT FILTER

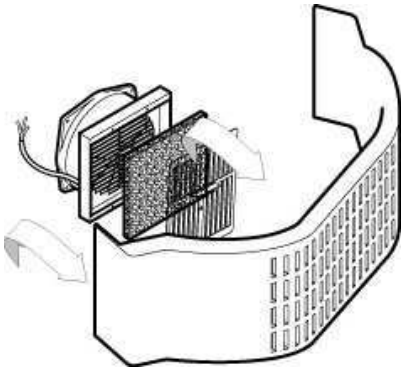
To prevent the exposition to bad rays it's important to check the good conditions of the blue cobalt filters and the fixing condition to the metallic frame. If breaks or cracks are present do not use the equipment and call for a skilled technician maintenance.

CLEANING THE BLUE COBALT FILTERS

Clean the filters internally and externally using a 50% solution of water and denatured alcohol.

CLEANING THE AIR FILTERS

Remove the metallic cover and extract the black filter.
Filters should be cleaned using a jet of compressed air or a vacuum cleaner as an alternative.
The filters should be replaced every month of operation.

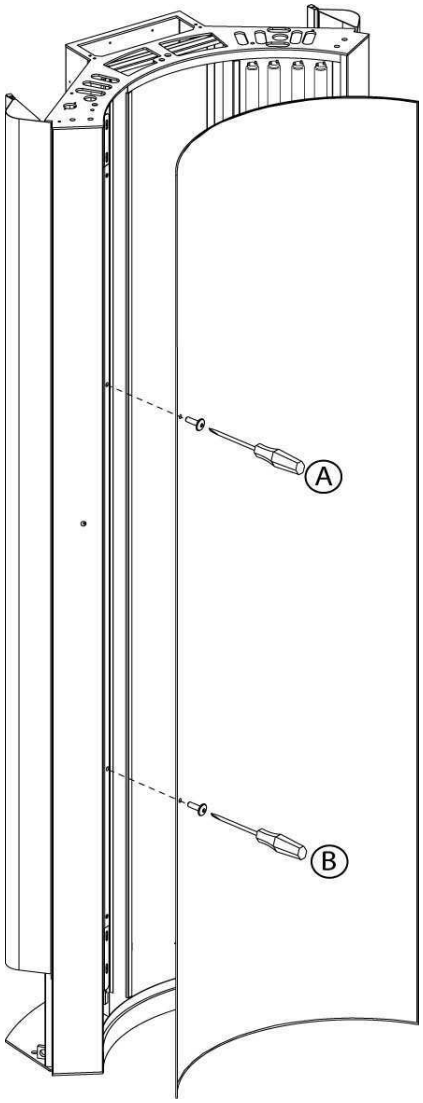


THE FILTERS SHOULD BE CLEANED EVERY WEEK OF OPERATION

IMPORTANT!
USE ONLY THE DISINFECTANT CLEANSING MULTYSAN TO CLEAN THE ACRYLIC AND FOOT-BOARD
N.B. DO NOT USE ALCOHOL OR ALCOHOL-BASED PRODUCTS FOR CLEANING

REMOVING AND CLEANING THE ACRYLIC PANEL AND LAMPS

To make the cleaning of the acrylic and lamps it's necessary to make the disassembling as follows:
Unscrew the 2 screws **AB** to rapid release as show in sequence holding acrylic.



ANY TAMPERING WITH THE APPLIANCE OR THE USE OF NON-ORIGINAL MATERIAL OR PARTS MAY LEAD TO INJURY. IN SUCH CASES, THE MANUFACTURER DECLINES ALL CIVIL AND PENAL LIABILITY, AND THE WARRANTY SHALL AUTOMATICALLY BE CONSIDERED NULL AND VOID.

8 - CONTROL BOARD PROGRAMMING

8.1 PROGRAMMING

Functions (firmware 1.3)	Display	Value	Standard
Session time in minutes for skin type 4	P4	1-40	*
Session time in seconds for skin type 4	S4	0-59	*
Session time in minutes for skin type 3	P3	1-P4	*
Session time in seconds for skin type 3	S3	0-59	*
Session time in minutes for skin type 2	P2	1-P3	*
Session time in seconds for skin type 2	S2	0-59	*
Session time in minutes for skin type 1	P1	1-P2	*
Session time in seconds for skin type 1	S1	0-59	*
Lamp cooling minutes	rF	3-8	*
Value of body ventilation at session start	bl	0-8	6
Value of body ventilation during cooling stage	bF	0-8	*
Minimum body ventilation	bd	0-8	0
Maximum body ventilation	bu	0-8	8
Type of body cooling ventilation: 0=fan 1=turbo	bt	0-1	0
Minutes for first coin	Pb	1-3	3
Time in seconds for first coin	Sb	0-59	0
Minutes for subsequent coin or accumulation of coins	Pu	1-3	3
Seconds for subsequent coin or accumulation of coins	Su	0-59	0
How to use	Ac	On-OF	OF
Minutes for start delay and accumulation of coin	rS	0-99	0
Start key on keypad.	tS	On-OF	On
Delay stop on keypad	SS	On-OF	Of
Function face/body selector	St	On-OF	Of
Priority external start	SE	On-OF	On
External start function	CS	On-OF	Of
Relay control on CBR/4	Cb	0-3	0
Delay CBR/4 relay disactivation when start button is loosed	Ct	mSx10	10
** Buzzer enable	b	On-OF	On
** Mid session buzzer enable	b2	On-OF	On
Session time display	uS	On-OF	On
Ascending or descending session time display	AS	On-OF	OF
Operating mode predefined	tF	0-6	0
Residual time to black-out	tr	On-OF	On
1st Vocal message	n1	On-OF	On
2nd Vocal message	n2	On-OF	On
3nd Vocal message	n3	On-OF	On
4th Vocal message	n4	On-OF	OF
Choice language of the messages	Li	1-6	1

* Value depends on the solarium.
**Only for MPT/4 control board

To modify or read the basic parameters of the MPT/4 or TRS/4 card, programming should be carried out as follows:

Switch on the solarium and press the **Time** key and then key **2** in sequence and keep them pressed for about four seconds until P4 is displayed.
With ventilation keys **+** or **–** choose the function to be modified or displayed.

P4-SESSION TIME IN MINUTES FOR SKIN TYPE 4. IV (Mediterranean) .
The **start** key displays the data relating to the function to be modified or read.
The ventilation keys **+** or **–** modifies the value (or logic status) according to the table.
The **stop** key confirms the value and exits the function.
The next function, i.e. S4, is displayed.
S4-SESSION TIME IN SECONDS FOR SKIN TYPE 4. IV (Mediterranean) .
The same procedure as per function P4 is repeated.
When exiting, P3 is displayed.
P3- SESSION TIME IN MINUTES FOR SKIN TYPE 3. III (European dark skin).
The same procedure as per function P4 is repeated.
When exiting, S3 is displayed.
S3- SESSION TIME IN SECONDS FOR SKIN TYPE 3. III (European dark skin).
The same procedure as per function P4 is repeated.
When exiting, P2 is displayed.
P2- SESSION TIME IN MINUTES FOR SKIN TYPE 2. II (European fair skin).
The same procedure as per function P4 is repeated.
When exiting, S2 is displayed.
S2- SESSION TIME IN SECONDS FOR SKIN TYPE 2. II (European fair skin).
The same procedure as per function P4 is repeated.
When exiting, P1 is displayed.
P1- SESSION TIME IN MINUTES FOR SKIN TYPE 1. I (Celtic).
The same procedure as per function P4 is repeated.
When exiting, S1 is displayed.
S1- SESSION TIME IN SECONDS FOR SKIN TYPE 1. I (Celtic).
The same procedure as per function P4 is repeated.
When exiting, rF is displayed.
rF-LAMP COOLING MINUTES.
When rF is displayed, the same procedure as per function P4 is repeated.
When exiting, bl is displayed.
bl-VALUE OF BODY VENTILATION AT SESSION START.
When bl is displayed, the same procedure as per function P4 is repeated.
When exiting, bF is displayed.
bF- VALUE OF BODY VENTILATION DURING COOLING STAGE.
When bF is displayed, the same procedure as per function P4 is repeated.
When exiting, bd is displayed.
bd-MINIMUM BODY VENTILATION.
When bd is displayed, the same procedure as per function P4 is repeated.
When exiting, bu is displayed.
bu-MAXIMUM BODY VENTILATION.
When bu is displayed, the same procedure as per function P4 is repeated.
When exiting, bt is displayed.
bt-TYPE OF BODY COOLING VENTILATION.
Enter function bt by pressing the start key. The display shows 0 (fan) or 1 (turbo). Change to 0 or 1, depending on the body cooling fan that is installed in the solarium, by following the same procedure as per function P4.
When exiting, Pb is displayed.
Pb-MINUTES FOR FIRST COIN.
When Pb is displayed, the minutes for start of session with coin can be modified by following the same procedure as per function P4.
When exiting, Sb is displayed.
Sb-TIME IN SECONDS FOR FIRST COIN.
When Sb is displayed, the seconds for start of session with coin can be modified by following the same procedure as per function P4.
When exiting, Pu is displayed.
Pu-MINUTES FOR SUBSEQUENT COIN OR ACCUMULATION OF COINS.
When Pu is displayed, the minutes for start of session with subsequent coins or accumulation of coins can be modified by following the same procedure as per function P4.
When exiting, Su is displayed.
Su-SECONDS FOR SUBSEQUENT COIN OR ACCUMULATION OF COINS.
When Su is displayed, the seconds for start of session with subsequent coins or accumulation of coins can be modified by following the same procedure as per function P4.
When exiting, Ac is displayed.
Ac-COIN ACCUMULATION FUNCTION.
When Ac is displayed, accumulation of coins is enabled (On) or disabled (OF) by following the same procedure as per function P4.
<u>This function is operative if rS is other than 0.</u>
When exiting, rS is displayed.
rS- MINUTES FOR START DELAY AND ACCUMULATION OF COIN.
When rS is displayed, the session start time delay can be modified by following the same procedure as per function P4.
If, for example, the value of this function is 2, the solarium starts after 2 minutes from pressing the start key. If the start key is pressed again, the solarium starts immediately.
If, however, the value is set to 99, the solarium remains in stand-by.
When exiting, tS is displayed.

tS- START KEY ON KEYPAD.
When tS is displayed, the start key on the keypad can be enabled (On) or disabled (OF) by following the same procedure as per function P4.
When exiting, SS is displayed.
SS - DELAY STOP ON KEYPAD
When SS is displayed, the stop key on the keypad can be delated for 3 seconds (On) or normally operated (OF) by following the same procedure as per function P4.
When exiting, St is displayed.
St - FUNCTION FACE/BODY SELECTOR
When St is displayed, the face/body selector on the keypad can be disabled before Start (OF) or enabled during the session (On) by following the same procedure as per function P4.
When exiting, SE is displayed.
SE- PRIORITY EXTERNAL START.
When SE is displayed, the priority external start on the keypad can be enabled (On) or disabled (OF) by following the same procedure as per function P4.
When exiting, CS is displayed.
CS - EXTERNAL START FUNCTION
When CS is displayed, the external button to the Start can be disabled through a bridge (OF) or enabled without a bridge (On) by following the same procedure as per function P4.
When exiting, Cb is displayed.
Cb- RELAY CONTROL ON CBR/4.
Enter function Cb by pressing the start key. With ventilation keys **+** or **–** choose the function to be modified or displayed:
00 - CBR/4 relay disabled.
01 - The relay the contacts RUNN (7-8) on the CBR/4 board when the unit makes the session.
02 - The relay closes the contacts RUNN (7-8) on the CBR/4 board when the unit makes the session and final ventilation.
03 - The relay closes the contacts RUNN (7-8) on the CBR/4 board when the key start is pushing.
When exiting, Ct is displayed.
Ct-DELAY CBR/4 RELAY DISACTIVATION WHEN START BUTTON IS LOOSED
When Ct is displayed, the function to modify the delay (on milliseconds) of the relay CBR/4 disable activation can be obtained when the START button is loosed only with Cb at point 03 and with the same procedure as per function P4.
When exiting, b is displayed.
b- BUZZER ENABLE.
When b is displayed, the card loud speaker can be enabled (On) or disabled (OF) by following the same procedure as per function P4.
When exiting, b2 is displayed.
b2- MID SESSION BUZZER ENABLE.
When b2 is displayed, the card loud speaker is enabled (On) or disabled (OF) half-way through the session by following the same procedure as per function P4.
When exiting, uS is displayed.

uS-SESSION TIME DISPLAY.
When uS is displayed, the solarium session time can be enabled (On) or disabled (OF) by following the same procedure as per function P4.
When exiting, AS is displayed.
AS-ASCENDING OR DESCENDING SESSION TIME DISPLAY.
When AS is displayed, the time in ascending (On) or descending (OF) mode can be visualised by following the same procedure as per function P4.
When exiting, tF is displayed.
tF - OPERATING MODE PREDEFINED
Enter function tF by pressing the start key. With ventilation keys **+** or **–** choose the function to be modified or displayed:
00 - Operating mode standard or default.
01 - Operating mode with CARD without the choice of skin type and price for session.
02 - Operating mode with CARD and price for time to definition.
03 - Operating mode with CARD with the choice of skin type and price for session.
04 - Operating mode with external timer.
05 - Operating mode with computer (external control).
06 - Operating mode with CARD with the time price (dynamic charge).
When exiting, tr is displayed.
tr - RESIDUAL TIME TO BLACK-OUT
When tr is displayed, the function to memorize (On) or enable (OF) the residual time is on if a black-out occurs during the session with the same procedure as per function P4.
When exiting, n1 is displayed.
n1-FIRST VOCAL MESSAGE.
When n1 is displayed, the vocal message can be enabled (On) or disabled (OF) by following the same procedure as per function P4.
When exiting, n2 is displayed.
n2-SECOND VOCAL MESSAGE.
When n2 is displayed, the vocal message can be enabled (On) or disabled (OF) by following the same procedure as per function P4.
When exiting, n3 is displayed.
n3-THIRD VOCAL MESSAGE.
When n3 is displayed, the vocal message can be enabled (On) or disabled (OF) by following the same procedure as per function P4.
When exiting, n4 is displayed.
n4-FOURTH VOCAL MESSAGE.
When n4 is displayed, the vocal message can be enabled (On) or disabled (OF) by following the same procedure as per function P4.
When exiting, Li is displayed.

Li-CHOICE LANGUAGE OF THE MESSAGES.
When Li is displayed, choose one of the 6 languages by following the same procedure as per function P4.
01=Italiano
02=English
03=Español
04=Greek
05-06=free
When exiting, P4 is displayed.

At this point, programming has been completed.
To return to normal operation, switch off and reset.

Maintenance functions	Display
To zero for filter cleaning	PL.
To zero for bulb replacement	SL.
Display of number of sessions	nS.
Display of lamp operating hours	oL.
Display of filter operating hours	oF.
Display of total solarium operating hours	oS.
Display of firmware card date	dC.

To modify or read the maintenance functions of the MPT/4 or TRS/4 card, programming should be carried out as follows:

Switch on the solarium and press the **Time** key and then key **1** in sequence and keep them pressed for about four seconds until PL is displayed.
With ventilation keys **+** or **–** choose the function to be modified or displayed.

PL- TO ZERO FOR FILTER CLEANING
When PL. is displayed, press start to enter the function. PL without the point is displayed. Press the start key again and the display flashes for a few seconds.
At this point the hours are zeroed and the associated lamp switches off.
Press the stop key to confirm the data. By pressing ventilation key + the following SL function is displayed

SL- TO ZERO FOR BULB REPLACEMENT
When SL. is displayed, press start to enter the function. SL without the point is displayed. Press the start key again and the display flashes for a few seconds.
At this point the hours are zeroed and the associated lamp switches off.
Press the stop key to confirm the data. By pressing ventilation key + the following nS function is displayed

nS- DISPLAY OF NUMBER OF SESSIONS.
When nS is displayed, press start to enter the function.
The format of the data displayed is as follows:

position "." number

position: indicates the value of the figure. E.g.: 1 for units, 2 for tens, 3 for hundreds …and so on.
number: indicates the value of the figure relating to the position.

E.g.: the card has carried out 008594 sessions.
When pressing the start key, the display shows 1.4
When pressing the start key again 2.9
When pressing the start key again 3.5
When pressing the start key again 4.8
Therefore, the figure is 8594

If the start key is pressed again, the display again shows the data indicated in position 1.

Note: even if the card memorises a maximum of 6 figures, the zeros on the left-hand side are not displayed.
Press the stop key to exit the function and oL is displayed.

oL- DISLAY OF LAMP OPERATING HOURS.
When oL is displayed, press start to enter the function. The number of lamp operating hours is displayed. To read the number, repeat the same sequence as per function nS. Press the stop button to exit the function and oF is displayed.
oF- DISPLAY OF FILTER OPERATING HOURS.
When oF is displayed, press start to enter the function. The number of filter operating hours is displayed. To read the number, repeat the same sequence as per function nS. Press the stop button to exit the function and oS is displayed.
oS- DISPLAY OF TOTAL SOLARIUM OPERATING HOURS.
When oS is displayed, press start to enter the function. The total number of solarium operating hours is displayed. To read the number, repeat the same sequence as per function nS. Press the stop button to exit the function oS. When exiting, dC is displayed.
dC- DISPLAY OF FIRMWARE (software microcontroller) CARD DATE.
When dC is displayed, press start to enter the function. The year and then the week of the firmware is displayed.

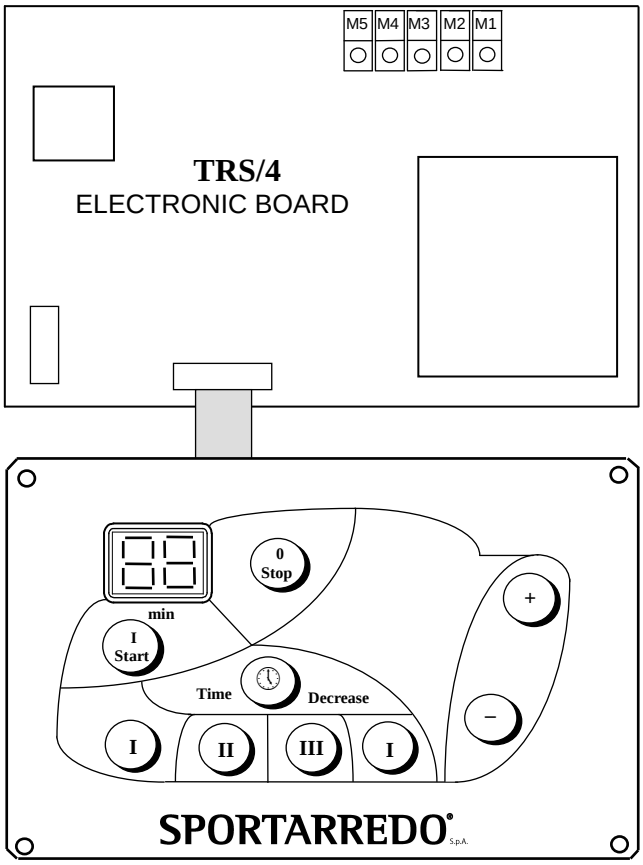
E.g.:

When pressing the start key, the display shows	1.4
When pressing the start key again	2.0
When pressing the start key again	3.4
When pressing the start key again	4.3

Therefore, the figure is 3404. In practice the firmware is of the 34th week of year 2004.
If the start key is pressed again, the display again shows the data indicated in position 1.
Press the stop key to exit the dC function. When exiting, PL is displayed.

At this point, programming has been completed.
To return to normal operation, switch off and reset.

8.2 ELECTRONIC CONTROL BOARD CONNECTIONS



CIRCUIT BOARD TERMINALS: NUMBERING AND DESCRIPTION

1	Power supply phase.
2	Power supply neutral
3	Control phase for lamps switch-on
4	Alimentation phase
5	Control phase for body-cooling ventilation

IMPORTANT !
ALWAYS DISCONNECT THE MACHINE FROM THE POWER SUPPLY BY PRESSING BREAKER BEFORE CARRYING OUT MAINTENANCE

ANY TAMPERING WITH THE APPLIANCE OR THE USE OF NON-ORIGINAL MATERIAL OR PARTS MAY LEAD TO INJURY. IN SUCH CASES, THE MANUFACTURER DECLINES ALL CIVIL AND PENAL LIABILITY, AND THE WARRANTY SHALL AUTOMATICALLY BE CONSIDERED NULL AND VOID.

9 - TROUBLESHOOTING AND RAPID DIAGNOSTICS

9.1 TROUBLESHOOTING AND RAPID DIAGNOSTICS

The solarium does not switch on when START is pressed.

1 - Check the position of the lever on the overload cut-out switch.
2 - Check that the power supply terminal board MAL. is in correct connection to the power supply.
See "RINGO MIX__2/10" circuit diagram.
3 - Check the fuses on the timer board ("TRS/4").
4 - Check the voltage (230V ~) across terminals 1 and 2 on the timer board " TRS/4".
See "RINGO MIX__2/10" circuit diagram.
5 - Check the functioning of the FR-FS-FT noise filters.
See "RINGO MIX__2/10" circuit diagram.

When START is pressed the ventilation system only is switched on.

1 - Check that remote control switches "HRV" operate correctly.
See "RINGO MIX__2/10" circuit diagram.
2 - Check the voltage (230V ~) across terminals 1 and 2 of the timer board " TRS/4".
See "RINGO MIX__2/10" circuit diagram.

When START is pressed only the lamps switch on (no ventilation).

1 - Check the voltage (230V ~) across terminals 2 and 3 of the timer board " TRS/4".
See "RINGO MIX__2/10" circuit diagram.

Body cooling system inoperative or cannot be regulated.

1 - Check the voltage (variable up to a maximum of 230V 3N~) across L1 and N of the connector "CNW2".
See "RINGO MIX__2/10" circuit diagram.
2 - Check the fuses on the Electronic board TRS/4.
See "RINGO MIX__2/10" circuit diagram.

One of the high-pressure does not switch on.

1 - Check for voltage on the wiring to the lamp.
2 - Check the reactor or the ignition for the lamp.

One of the low-pressure does not switch on.

1 - Check for voltage on the wiring to the lamp.
2 - Check the reactor or the starter for the lamp.

The radio does not work.

1 - Check the fuses on the Electronics board “AL12”
2 - Check that the output of the power supply module "AL12" carries 12V DC.
3 - The plugging in of jack plug of the earphones, excludes the loudspeaker functioning.
See "RINGO MIX__2/10" circuit diagram.

10 - DEMOLITION AND WASTE MATERIALS

10.1 WASTE MATERIALS

The lamps are considered as disposable waste materials and all the materials regarding the packing. Due to their characteristics, these lamps are classified as non-toxic and non-harmful **special waste materials**. Disposal of the lamps must therefore be effected as required by the appropriate legislation.
DEFINITION OF SPECIAL WASTE MATERIAL: Residual material deriving from industrial processes or agricultural, artisan, commercial or service activities which, in view of their quantity of characteristics, are not classified as normal household refuse.

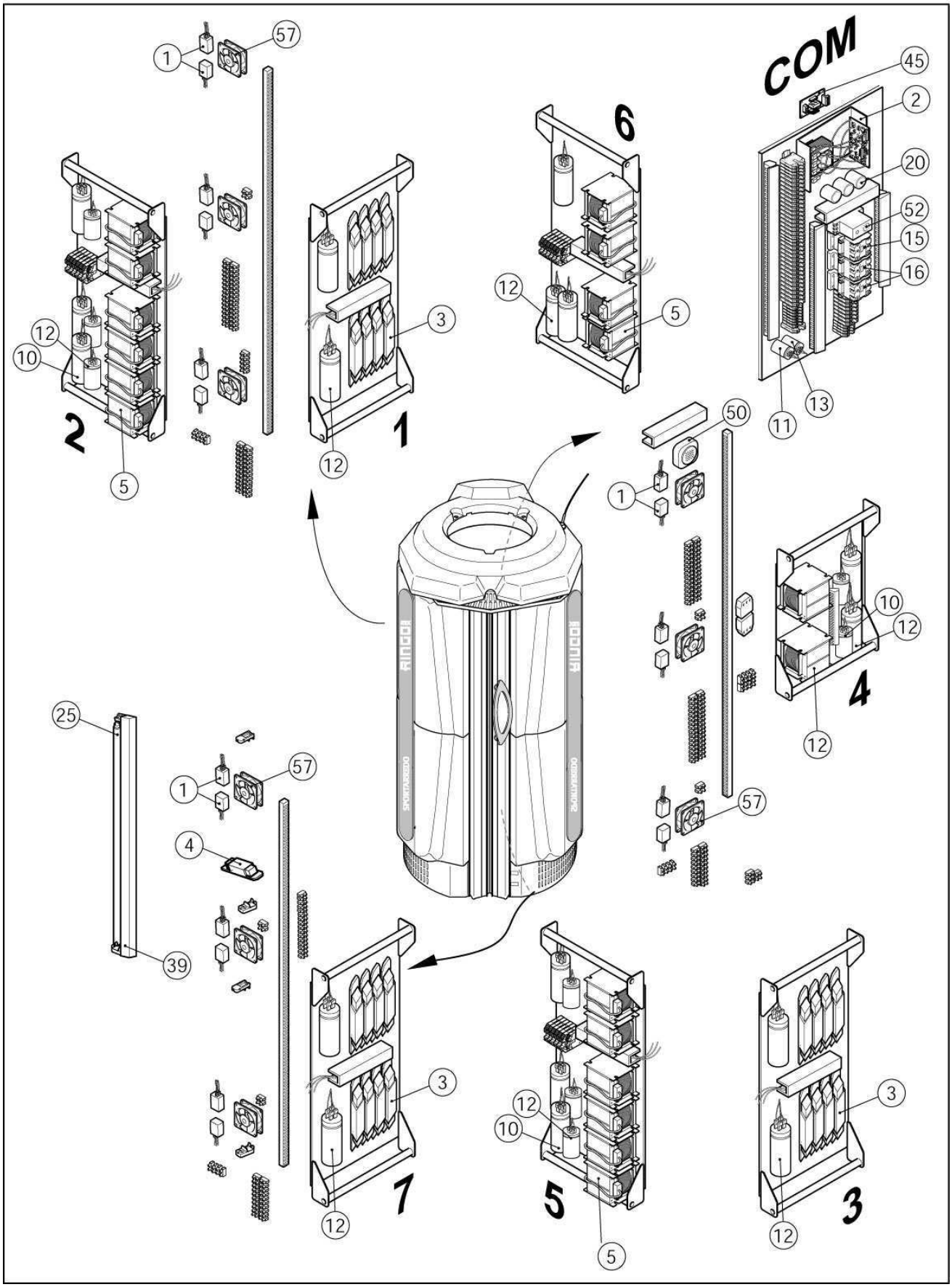
10.2 DEMOLITION OF THE MACHINE

Each country applies specific legislation concerning the disposal of machinery. Disposal of this machine must be carried out in compliance with the regulations laid down by local legislation and bye-laws. Dismantle the machine and group the various parts according to their chemical characteristics.
Dismantling of the machine must be performed by qualified personnel

11 - REPLACEMENTS AND CIRCUIT DIAGRAMS

11.1 SPARE PARTS LIST

REF	PC	CODE	DESCRIPTION
1	18	4028.4400.04	ZRM6 ES B IGNITOR
2	1	4028.1003.04	12V FEEDER
3	24	4028.1001.08	160W 60Hz BALLAST
4	1	4028.1002.07	MEC 58/65W BALLAST
5	18	16973.000.0.0	MYSUN 600W BALLAST
6	2	4027.3030.04	LOUDSPEAKER
7	1	4027.3028.01	ANTENNA
8	1	4027.3025.04	RADIO/CD
9	1	16946.428.0.0	PLASTIC COVERING CAP
10	20	4028.4304.04	20µF CONDENSER
11	1	4028.4306.00	3.5µF CONDENSER
12	8	4028.4300.00	65µF CONDENSER
13	1	4028.4307.05	8µF CONDENSER
14	1	4028.6000.01	REVALCO HOUR-COUNTER
15	1	4028.2100.04	FANTINI&COSMI HR 1710 CONTACTOR
16	2	4028.2100.06	FANTINI&COSMI HR 2510 CONTACTOR
17	1	16940.118.0.0	AISI 304 DISC FILTER
18	6	18283.008.0.0	AIR FILTER SET
19	78	16976.004.0.0	COBALT FILTER 230X75
20	3	4028.4202.00	FILTER RFI 60-41 (ONLY EUROPE UNIT)
21	1	4028.0100.08	FAN GRILL PROTECTION
22	1	4028.4013.12	58W BLUE LAMP
23	24	4028.4009.03	KALFASUN B23 WHITE 160W LAMP
24	18	4028.4002.00	KALFASUN 630F LAMP
25	1	4028.4013.07	36W LAMP
26	1	4025.7050.01	SM08.226 MAGNETIC PLATE
27	1	15921.000.0.0	DOOR EXTERNAL HANDLE
28	1 1	13213.149.0.0 13213.363.0.0	INTERNAL HANDLE (left) INTERNAL HANDLE (near door)
29	2	4027.3010.34	LOUDSPEAKER MASKING GRILL
30	6	16946.427.0.0	EXTERNAL PLASTICS
31	1	16946.303.1.0	RADIO ABS COVER
32	1	16946.302.1.0	ELECTRONIC TIMER BOARD ABS COVER
33	1	4028.4020.01	STARTER S10
34	1	4028.3341.02	COURTESY LAMP 10W
35	3	16946.397.0.0	ACRYLIC PANEL "RINGO MIX"
36	18	14273.012.1.0	R630 REFLECTOR
37	1	14213.050.0.0	FOOTBOARD
38	1	4025.6400.01	BLACK FOOT
39	1	4028.3340.01	PHILIPS 36W CEILING LIGHT FIXTURE
40	1	16916.062.1.0	ACRYLIC RIGHT SHELL
41	2	16916.063.1.0	ACRYLIC DOOR/LEFT SHELL
42	48	4028.3311.01	NEON HOLDER WITH STARTER
43	48	4028.3311.00	NEON HOLDER WITHOUT STARTER
44	1	4027.5021.00	TIE
45	1	14703.012.0.0	CBR ELECTRONIC BOARD (ONLY EUROPE UNIT)
46	1	15906.026.0.0	ELECTRONIC BOARD FOR PANEL JACK
47	1	14203.277.0.0	CONTROL BOARD (COMPLETE)
48	5	4023.1020.00	SPHERICAL WHEEL
49	52	4028.4020.03	STARTER PHILIPS S12
50	1	4027.5020.00	ALARM
51	1	15906.035.0.0	KEYBOARD
52	1	4028.2118.00	TIMER SERAI
53	6	4028.0021.00	EBM W2S/ 130 AA0301 FAN
54	1	4028.0018.06	ECOFIT 4VGR 45 350V CLB FAN
55	1	4028.0036.00	EBM A2E300-AP02 FAN
56	3	4028.0042.00	EBM D2E097 BK80 FAN
57	9	4028.0029.04	EBM 4650N FAN
58	1	4028.4555.00	UNDECAL RELAY SOCKET FINDER 94.72
59	1	4028.4502.03	FINDER RELAY 55.32
60	1	16936.039.1.0	ACRYLIC STOP PART
61	2	16936.040.1.0	ACRYLIC STOP PART
62	1	4028.2120.28	BREAKER 3P 50A
63	2	4024.0010.03	EYEWEAR SUN GLOBES
64	1	4028.2116.04	TIMER OMRON
65	1	4026.1010.03	LIMITSWITCH CROUZET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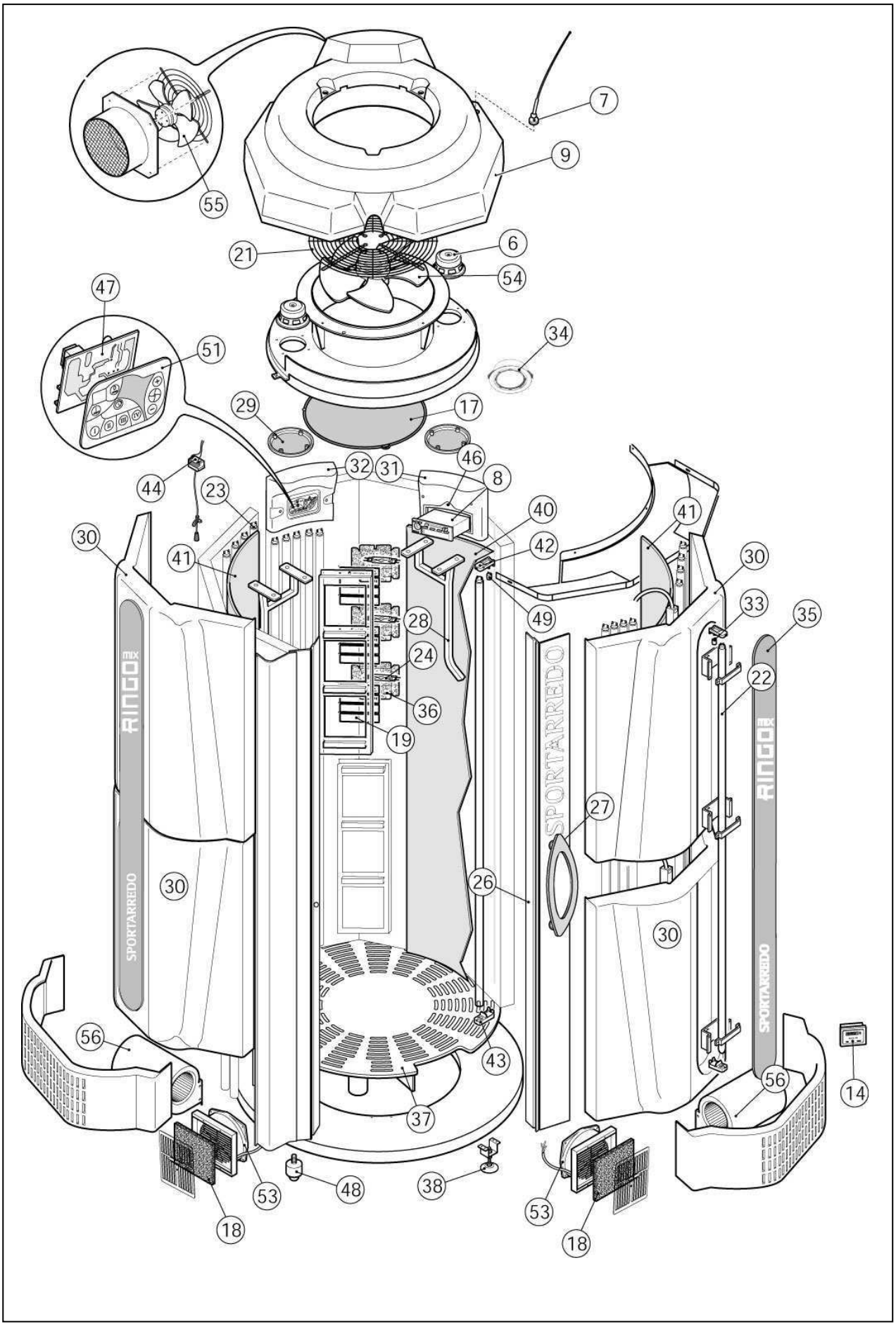
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11.2 CIRCUIT DIAGRAMS LEGEND

SIMBOLS	DESCRIPTION
⏚	Earth terminal
A1÷A18 16973.000.0.0	Ballast for KALFASUN 630 facial lamps
AC1÷18 4028.4230.04	Igniter for KALFASUN 630 facial lamps
AL12 4028.1003.04	Power supply circuit board for 12Vdc radio
C2 4028.4306.00	3.5µF condenser
C1 4028.4307.05	8µF condenser
C20-21-22	2µF condenser
C3-6-8-10-16-17-18-19 194028.4300.00	65µF condenser
C4-5-7-9-11-12-13-14-15 4028.4304.00	20µF condenser
CND	10-pin door connector
CNS	10-pin connector control box
CNW1	7-pin black connector
CNW2-3-4	5-pin black connector
CNWG	3-pin black connector
CO 4028.6000.01	Hour counter
F 4028.3341.02	Courtesy lamp
FC 4026.1010.03	Limit switch
HRA-HRB 4028.2100.06	Contactor for high pressure lamps
HRV 4028.2100.04	Contactor for ventilation lamps
IG 4028.2120.28	Breaker
L1÷18 4028.2300.04	KALFASUN 630F facial lamps
L19 16976.021.0.0	KALFASUN B23-S WHITE 160W low pressure lamps
L20 4028.4013.12	Lamp with indirect light 58W
L21 4028.4013.07	Lamp with indirect light 36W
M1-2	7 pins terminal board
M4	12 pins terminal board
MAL-MAL1	Power supply terminal board
MC	Control terminal board
MS	Plug terminal board
MV	Fan terminal board
N	Neutral terminal
R 4027.5020.00	Alarm
L1-L2-L3	Power supply phases
R1÷R24 4028.1001.08	Ballast for KALFASUN B23-S WHITE 160W
R17 4028.1002.07	Ballast for 58W lamp
RA 4027.3025.04	Radio/CD
RSP-LSP 4027.3030.04	Loudspeakers
RU 4028.4502.03	Control relay for T.MAX
S 4028.4020.03	Starter
Scheda jack 15906.026.0.0	Circuit board for Jack
T5 4028.2118.00	Timer
T 4028.2116.04	Timer
TIR 4027.5021.00	Tie for alarm
TRS/4 14203.277.0.0	TRS/4 control board (complete)
VC 4028.0018.06	Body fan
VR1-2-3-7-8-9-13-14-15 4028.0029.04	Facial lamps fan
VR4-6-10-12-16-18 4028.0021.00	Cooling fan for low pressure lamps
VR5-11-17 4028.0042.00	Cooling fan for low pressure lamps
VT 4028.0036.00	Air exhaust fan

DESCRIPTION CIRCUIT DIAGRAMS

1/10 Voltage-change diagram.
2/10 Practical diagram of control.
3/10 Upper sheet right shell N°6.
4/10 Lower sheet right shell N°5 and left shell N°2 .
5/10 Sheet right shell N°4.
6/10 Lower sheet left shell N°1 and shell door N°7.
7/10 Lower sheet right shell N°3.
8/10 Shell door diagram.
9/10 Left shell diagram.
10/10 Right shell diagram

12 - MEDICATION

12.1 MEDICATION

Certain drugs can make your skin sensitive to ultraviolet light. The U.S. Department of Health and Human Services has published a booklet entitled Medications That Increase Sensitivity to Light; A 1990 Listing prepared by Jerome: Levine, M.S., R.Ph: The booklet is HHS Publication FDA 91-8280 and is available from the U.S. Government Printing Office: Refer to this booklet or your health practitioner if you are taking any medications.

Dr. Richard Childers and Dr. Edward Emmett of Jhon Hopkins University complied a list of drugs, foods, and other substances that could make your skin sensitive to ultraviolet light: This list is presented below:

- Diuretics (which help prevent water retention), prescribed for high blood pressure (for example, Hydrodiuril).
- Diabetes drugs-Orinase and Diabinase.
- Urinary tract infection treatments with phenothiazines.
- Tranquilizers, such as Thorazine.
- The acne treatment Retin-A.
- Anthistamines-Phenergan and Benadryl-particularity when they are used on the skin in ointment form.
- Antibiotics-Declomycin, Aureozicin, and Griseofulvin, which is use in ringworm treatment.
- Coal tar treatment for psoriasis or chronic eczema.
- Bacterial infection treatments using sulfanilamide.
- Compounds known as furocoumarins or psoralens, which sensitise skin to sunlight whether put on the skin or taken orally. They are prescribed for vitiligo (loss of skin pigmentation) and psoriasis.
- Birth control pills. The hormones they contain can react with sunlight and in some cases cause brown patches on the skin.
- Perfumes and colognes containing furocoumarins, compounds from natural products such as plants and fruits. Their natural oils cad sensitise the skin to sunlight.
- Food and fruits that contain photosensitising agents: celery, carrots, limes, coriander, parsley, fennel, dill, buttercup, mustard and figs.

13 - WARRANTY

13.1 LIMITED WARRANTY

For **USA** see next page.

TERMS OF WARRANTY

Sportarredo USA, Inc. ("Sportarredo") warrants its tanning beds (the "Products") to be free from defects in materials and workmanship under intended normal use as described in the unit's Operation and Instruction Manual, for a period of two (2) years (the Warranty Period") from date of sale (proved by the invoice's date). This Limited Warranty does not cover the normal wear and tear of the Products.

This Limited Warranty applies only within the United States and Canada to the first end user (the "Buyer") of the Products and becomes void on the transfer or sale of the Products to any party other than the Buyer.

I. Registration Requirement
a. This Limited Warranty becomes effective only if the Buyer fills out and returns the Warranty Certificate, dated and signed by the Buyer, to Sportarredo at the address shown below within thirty (30) days of the sale of the Products.
b. By returning the Warranty Certificate to Sportarredo, the Buyer acknowledges to have fully read and understood the user's manual, and to have complied with all the instructions stated in that document.

II. Installation and Maintenance Requirements
a. This Limited Warranty does not apply when the installation has not been performed by Sportarredo's trained and certified technician. For the sake of clarity, the technicians have to be certified by Sportarredo, after attending Sportarredo's training courses.
b. This Limited Warranty does not apply if the Products are misused or abused, and there is evidence of mishandling, neglect, modification or repair without the approval of Sportarredo, or damage done to the Products by anyone other than Sportarredo.
c. This Limited Warranty does not apply to damages caused during transportation (including transport to and from the Buyer's location); or damage due to improper or lack of maintenance; voltage overloads or "under voltage"; insufficient or abnormal operation of electrical or hydraulic systems; improper or incorrect treatment of water supply; or corrosion caused by condensation or hard water; improper descaling treatments; or in general to any cause which does not specifically depend on defect in material or workmanship.
d. This Limited Warranty does not apply if the serial number on the product has been removed, altered or defaced.

III. Warranty Claim Procedure
In order to submit a Warranty Claim, the Buyer must provide Sportarredo with a written notice of any alleged defects within the Warranty Period, but in any case after no more than ten (10) days from the date of the discovery of the defects. At Sportarredo's option, the Buyer must ship the defective Product(s) to Sportarredo, at the address shown below, with mailing or shipping charged prepaid. Sportarredo shall be liable for and shall pay for the all freight, shipping and delivery costs of forwarding parts sent to Sportarredo for repair or replacement under the Limited Warranty. The Buyer shall be liable and pay for all labor and transportation charges in the event of a house call by an unauthorized technician. Adequate packaging must be used for returned goods to prevent freight damages.

IV. Warranty Services
a. Defective parts will be replaced upon receipt by Sportarredo. Only original parts obtained through Sportarredo USA Inc., its authorized dealers or distributors may be used. Shipping terms, methods, etc. must be pre-approved by Sportarredo prior to the return of the parts in question. Parts, etc. shipped to Sportarredo without prior approval will be refused and the owner/shipper will be responsible for all related shipping costs etc.
b. If the Products shall be proved to Sportarredo's satisfaction to be defective within the Warranty Period, Sportarredo's obligation under this Limited Warranty shall be limited to either repairing or replacing the Products, at Sportarredo's sole discretion, if such defect was caused solely by defective workmanship and materials. Such repair or replacement shall be Sportarredo's sole obligation and the Buyer's exclusive remedy hereunder and shall be conditioned upon the Buyer's fulfilling of its obligations under Warranty Claims Procedure. The obligations under this warranty are limited to repair or replacement of any defective part without charge for that part to the original purchaser, with the following exceptions:
1. Tanning lamps, filters, starters and igniters are warranted against defects for a period of sixty (60) days from date of sale.
2. Radios and speakers are warranted by the radio and speaker Sportarredo for the period of time indicated in their warranty certificates.
3. Labor will be furnished without charge for sixty (60) days from the date of purchase only. All labor and related charges must be authorized by Sportarredo USA Inc. prior to start of repairs, and must conform with Sportarredo USA Inc. established rates and time allotment policy.
4. All fans and batteries are warranted against defects for a period of two (2) years from date of sale.
5. Timer system, plastics reflectors and parts subjected to "normal" wear & tear (meaning parts intended to be used by the final customer during each session, as buttons, switches, profiles, etc) are warranted for one (1) year.
6. Acrylics are warranted for twelve (12) month prorated period (this warranty applies only if the "owner" of the units has used appropriate cleaners).
7. Mattresses and pillows are warranted for a period of six (6) months from the date of sale.

V. Exclusion from Limited Warranty
The following are not covered by this Limited Warranty

Scratches, splinters, or marks to the Products, unless Sportarredo is notified as soon as the Products are received by the Buyer;

Normal wear and tear;

Defects not caused by the Products, but that are the result of improper installation;

Misuse or abuse by the Buyer;

Physical damage to the Product as a result of unreasonable use and/or negligence.

VI. Limitations on Warranty

This Limited Warranty is provided by Sportarredo, and it contains the only express warranty provided to the Buyer by Sportarredo. Sportarredo does not authorize any other person, including distributors, sub-distributors, agents, to give any other warranties on Sportarredo's behalf.

SPORTARREDO DISCLAIMS ANY EXPRESS WARRANTY NOT PROVIDED HEREIN AND ANY IMPLIED WARRANTY, GUARANTY OR REPRESENTATION AS TO PERFORMANCE, QUALITY AND ABSENCE OF HIDDEN DEFECTS, AND ANY REMEDY FOR BREACH OF CONTRACT, WHICH BUT FOR THIS PROVISION, MIGHT ARISE BY IMPLICATION, OPERATION OF LAW, CUSTOM OF TRADE OR COURSE OF DEALING, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. SPORTARREDO FURTHER DISCLAIMS ANY RESPONSIBILITY FOR LOSSES, EXPENSES INCONVENIENCES, SPECIAL, INDIRECT, SECONDARY OR CONSEQUENTIAL, INCIDENTAL, AND CONTINGENT DAMAGES WHATSOEVER, INCLUDING DAMAGES ARISING FROM OWNERSHIP OR USE OF PRODUCT.

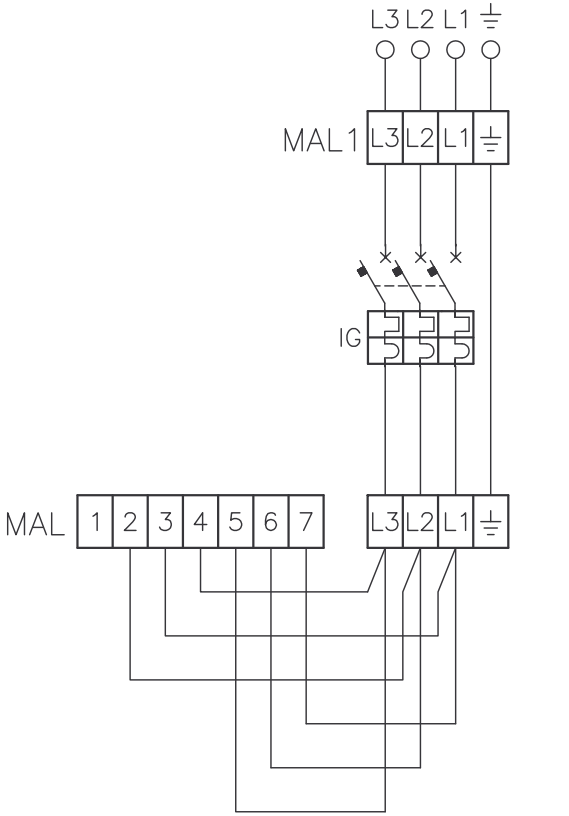
Implied warranties in jurisdictions where they may not be disclaimed shall be in effect only for the duration of the express warranty set forth herein.

If the Buyer has a claim under this Limited Warranty or under any implied warranties provided to the Buyer by state law, the Buyer may not file a court action based on that claim any later than one (1) year after the Buyer's right to file a court action accrues. In those states that do not allow this limitation on the time period for filing a court action, this provision is inapplicable.

VII. Sportarredo's Liability

a. Sportarredo's liability with respect to the Product sold to the Buyer shall be limited to the Limited Warranty provided herein. Sportarredo SHALL NOT BE SUBJECT TO ANY OTHER OBLIGATIONS OR LIABILITIES, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORIES OF LAW, WITH RESPECT TO THE PRODUCTS SOLD OR SERVICES RENDERED BY SPORTARREDO, OR ANY UNDERTAKING, ACTS OR OMISSIONS RELATING THERETO.

b. Without limiting the foregoing, Sportarredo specifically disclaims any liability for property or personal injury damages, penalties, special or punitive damages, damages for lost profits or revenues, services, down time, shut down or slow down costs, or for any other types of economic loss, and for claims of the Buyer's customers or any third party for any such damages. Sportarredo SHALL NOT BE LIABLE FOR AND DISCLAIMS ALL CONSEQUENTIAL, INCIDENTAL, AND CONTIGENT DAMAGES WHATSOEVER.

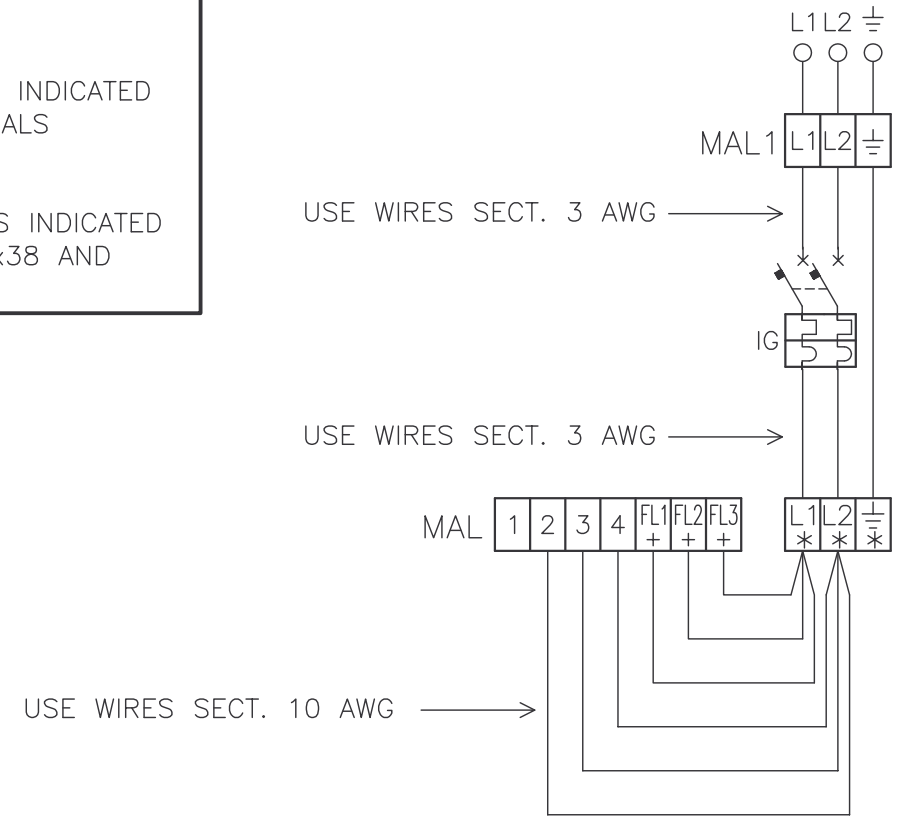


V = 230V 3~ 60Hz

REPLACE BREAKER "IG" WITH A 2P–80Amps TYPE C

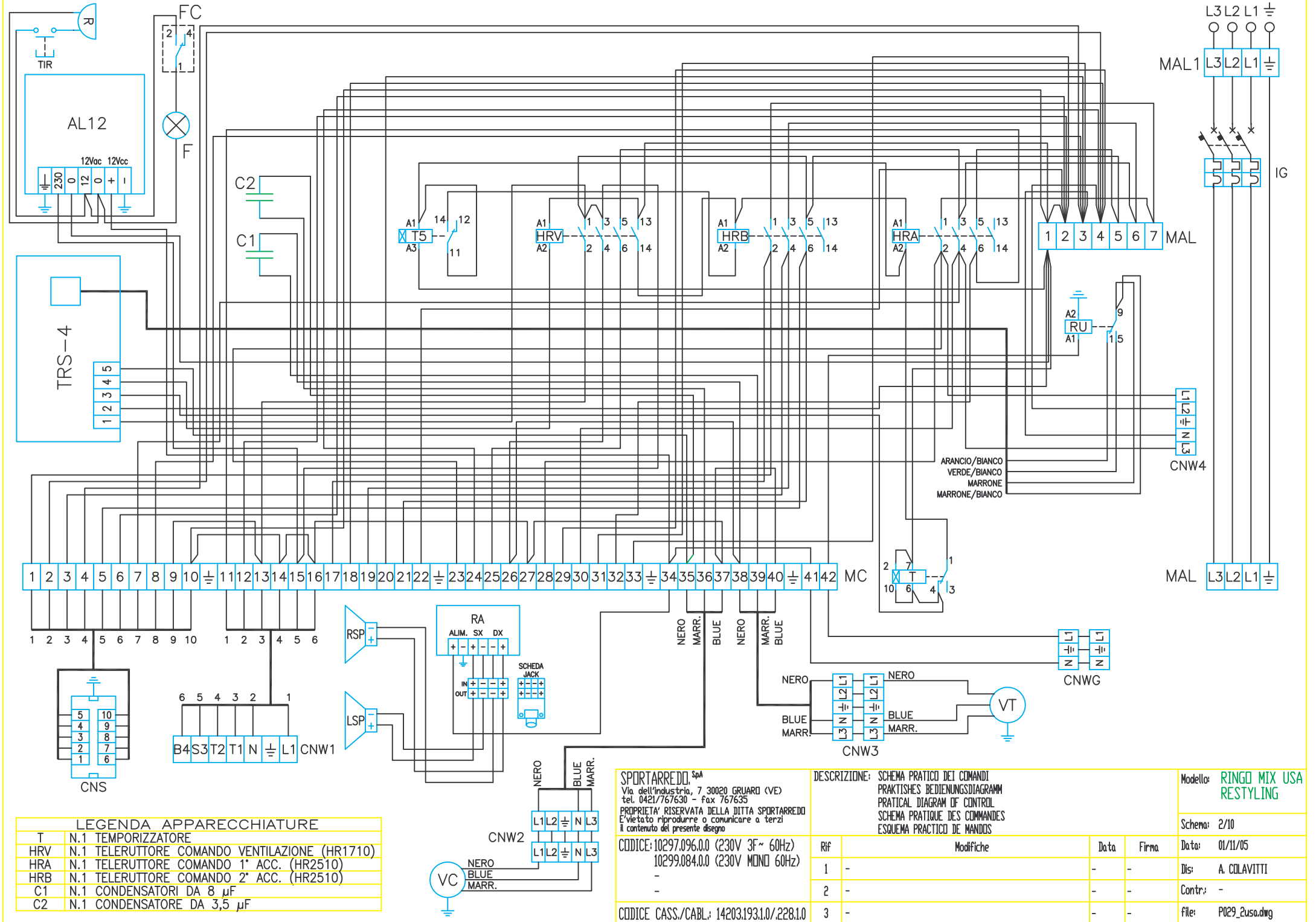
* REPLACE TERMINALS INDICATED WITH 125Amps TERMINALS

\+ REPLACE TERMINALS INDICATED WITH FUSEHOLDER 10x38 AND FUSE 30Amps RELAY



V = 230V MONO 60Hz

SPORTARREDO. SpA Via dell'Industria, 7 30020 GRUARO (VE) tel. 0421/767630 - fax 767635 PROPRIETA' RISERVATA DELLA DITTA SPORTARREDO E'vietato riprodurre o comunicare a terzi il contenuto del presente disegno	DESCRIZIONE: SCHEMA CAMBIO TENSIONE DIAGRAMM FUR SPANNUNGSANDERUNG VOLTAGE-CHANGE DIAGRAM SCHEMA CHANGE TENSION ESQUEMA CAMBIO TENSION				Modello: RINGO MIX USA RESTYLING
					Schema: 1/10
CODICE: 10297.096.0.0 (230V 3F~ 60Hz) 10299.084.0.0 (230V MONO 60Hz) - -	Rif	Modifiche	Data	Firma	Data: 01/11/05
	a	-	-	-	Dis: A. COLAVITTI
	b	-	-	-	Contr.: -
CODICE CASS./CABL.: -	c	-	-	-	file: P029_1usa.dwg



LEGENDA APPARECCHIATURE	
T	N.1 TEMPORIZZATORE
HRV	N.1 TELERUTTORE COMANDO VENTILAZIONE (HR1710)
HRA	N.1 TELERUTTORE COMANDO 1° ACC. (HR2510)
HRB	N.1 TELERUTTORE COMANDO 2° ACC. (HR2510)
C1	N.1 CONDENSATORI DA 8 µF
C2	N.1 CONDENSATORE DA 3,5 µF

SPORTARREDO. SpA
Via dell'Industria, 7 30020 GRUARO (VE)
tel. 0421/767630 - fax 767635
PROPRIETA' RISERVATA DELLA DITTA SPORTARREDO
E'vietato riprodurre o comunicare a terzi
il contenuto del presente disegno

DESCRIZIONE: SCHEMA PRATICO DEI COMANDI
PRAKTISCHES BEDIENUNGSDIAGRAMM
PRATICAL DIAGRAM OF CONTROL
SCHEMA PRATIQUE DES COMMANDES
ESQUEMA PRACTICO DE MANDOS

CODICE: 10297.096.0.0 (230V 3F~ 60Hz)
10299.084.0.0 (230V MONO 60Hz)
-
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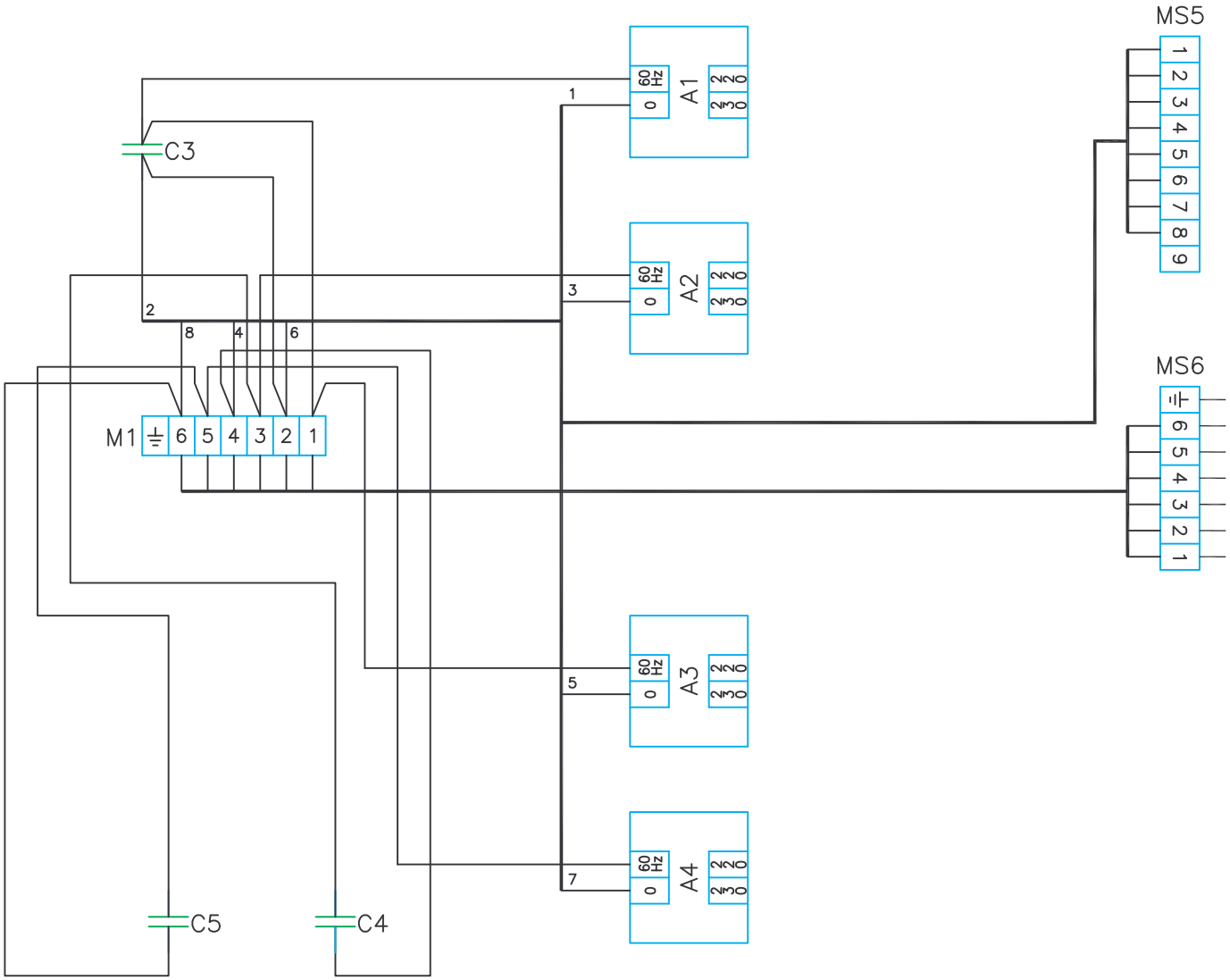
CODICE CASS./CABL.: 14203.193.1.0/.228.1.0

Rif	Modifiche	Data	Firma
1	-	-	-
2	-	-	-
3	-	-	-

Modello: RINGO MIX USA RESTYLING
Schema: 2/10
Data: 01/11/05
Dis: A. COLAVITTI
Contr: -
file: P029_2usa.dwg

LEGENDA APPARECCHIATURE	
C3	N.1 CONDENSATORI DA 65 µF
C4–C5	N.2 CONDENSATORI DA 20 µF
A1–A2–A3–A4	N.4 REATTORI DA 600W ALTA PRESSIONE



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PROPRIETA' RISERVATA DELLA DITTA SPORTARREDO
E'vietato riprodurre o comunicare a terzi
il contenuto del presente disegno

DESCRIZIONE: LAMIERA SUPERIORE GUSCIO DESTRO N.6
ÜBEREN BLECH RECHTE SCHALE N°6
UPPER SHEET RIGHT SHELL N°6
TOLE SUPERIEURE COQUILLE DROIT N°6
CHAPA SUPERIOR TAPA DERECHA N°6

Modello: RINGO MIX USA RESTYLING

CODICE: 10297.096.0.0 (230V 3F~ 60Hz)
10299.084.0.0 (230V MONO 60Hz)
-
-

CODICE CASS./CABL.: 14203.190.0.0

Rif	Modifiche	Data	Firma
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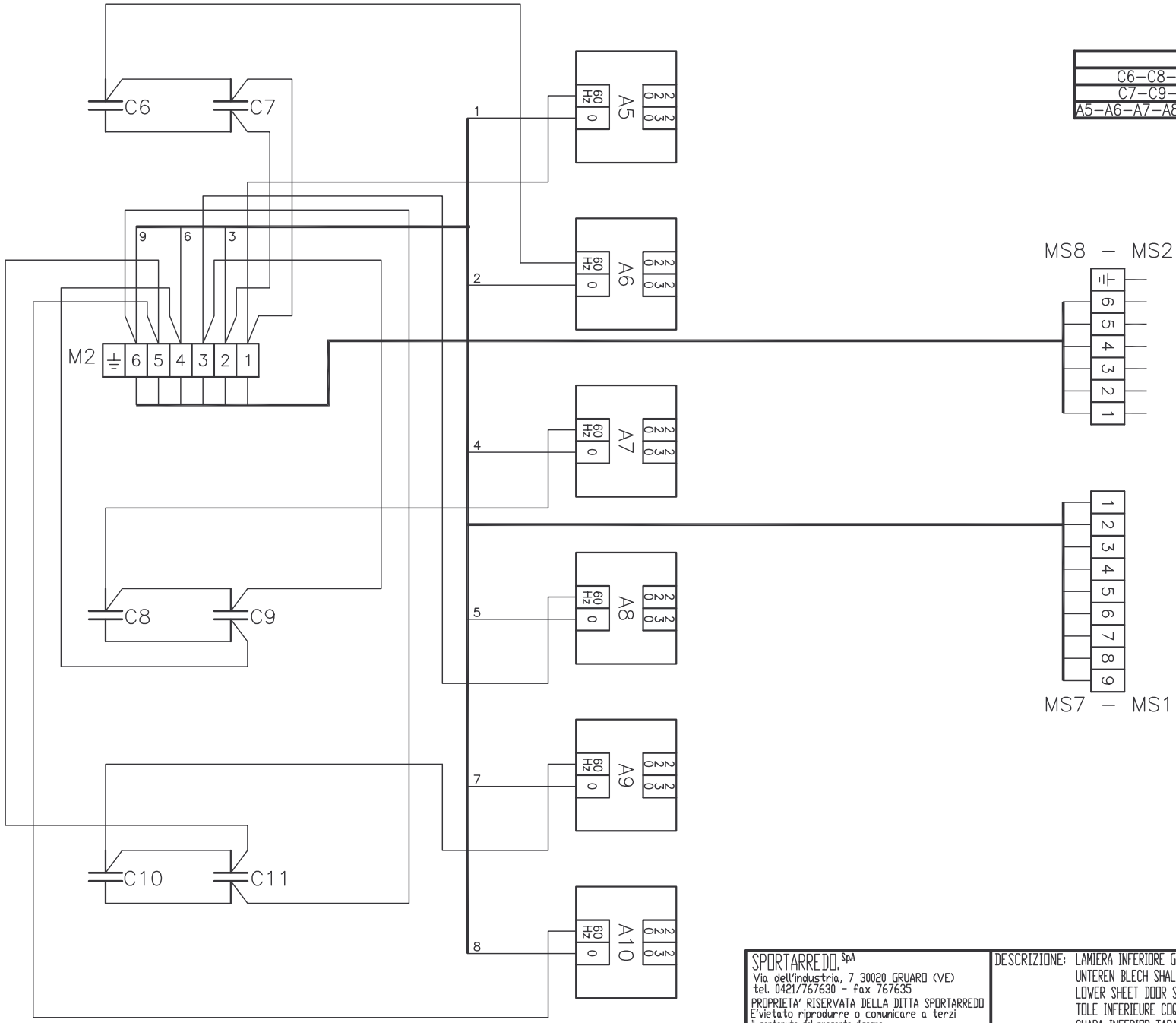
b	-	-	-
c	-	-	-

Schema: 3/10
Data: 01/11/05
Dis: A. COLAVITTI
Contr: -
file: P029_3usa.dwg



LEGENDA APPARECCHIATURE	
C6–C8–C10	N.3 CONDENSATORI DA 65 µF
C7–C9–C11	N.3 CONDENSATORI DA 20 µF
A5–A6–A7–A8–A9–A10	N.6 REATTORI DA 600W ALTA PRESSIONE

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PROPRIETA' RISERVATA DELLA DITTA SPORTARREDO
E'vietato riprodurre o comunicare a terzi
il contenuto del presente disegno

DESCRIZIONE: LAMIERA INFERIORE GUSCIO PORTA N.5 E GUSCIO SINISTRO N.2
UNTEREN BLECH SHALE TUR N°5 UND LINKE SCHALE N°2
LOWER SHEET DOOR SHELL N°5 AND LEFT SHELL N°2
TOLE INFERIEURE COQUILLE DU PORTE N°5 ET COQUILLE GAUCHE N°2
CHAPA INFERIOR TAPA DE LA PUERTA N°5 Y TAPA IZQUIERDA N°2

Modello: RINGO MIX USA RESTYLING

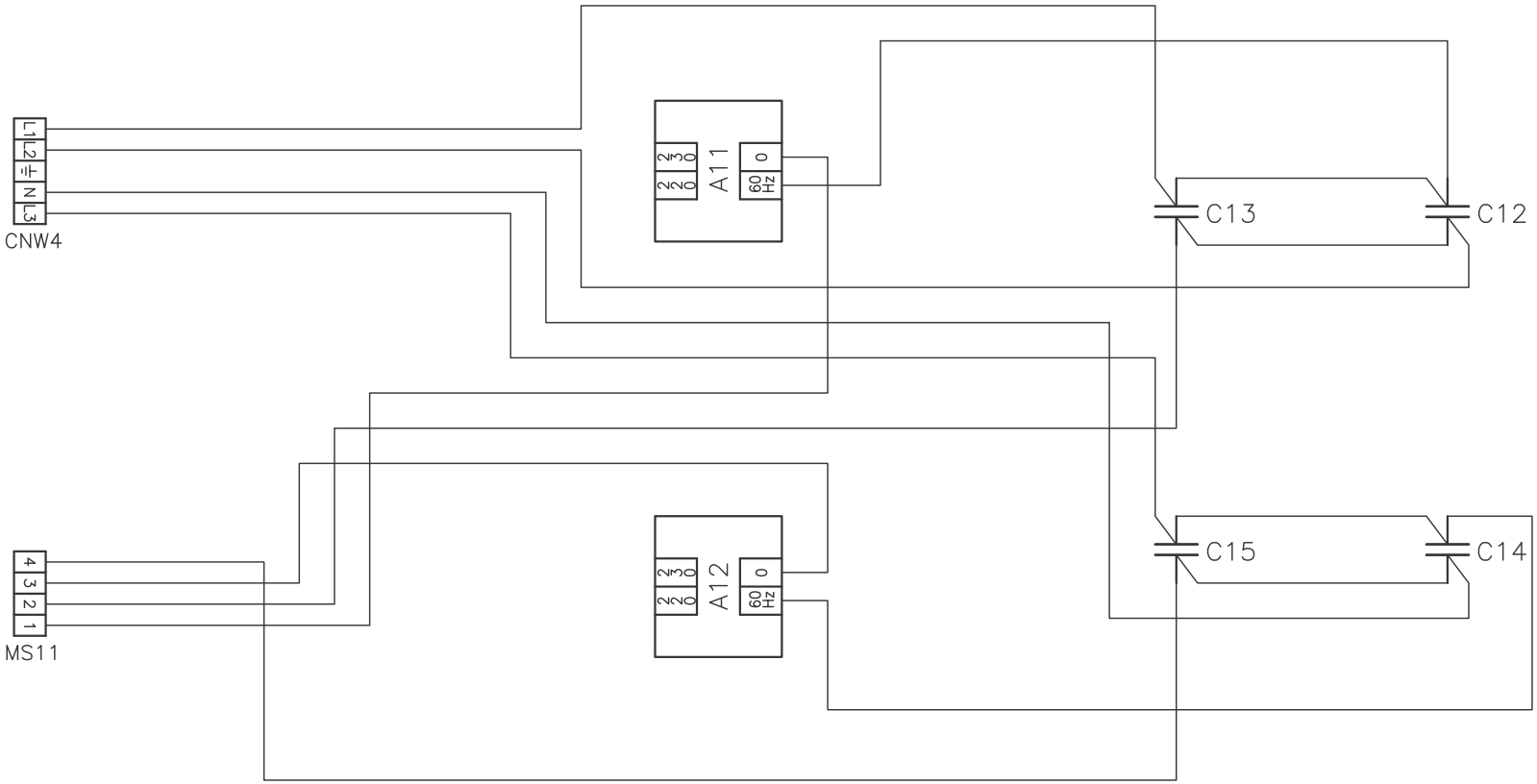
CODICE: 10297.096.0.0 (230V 3F~ 60Hz)
10299.084.0.0 (230V MONO 60Hz)
-
-

CODICE CASS./CABL.: 14203.189.0.0

Rif	Modifiche	Data	Firma
a	-	-	-
b	-	-	-
c	-	-	-

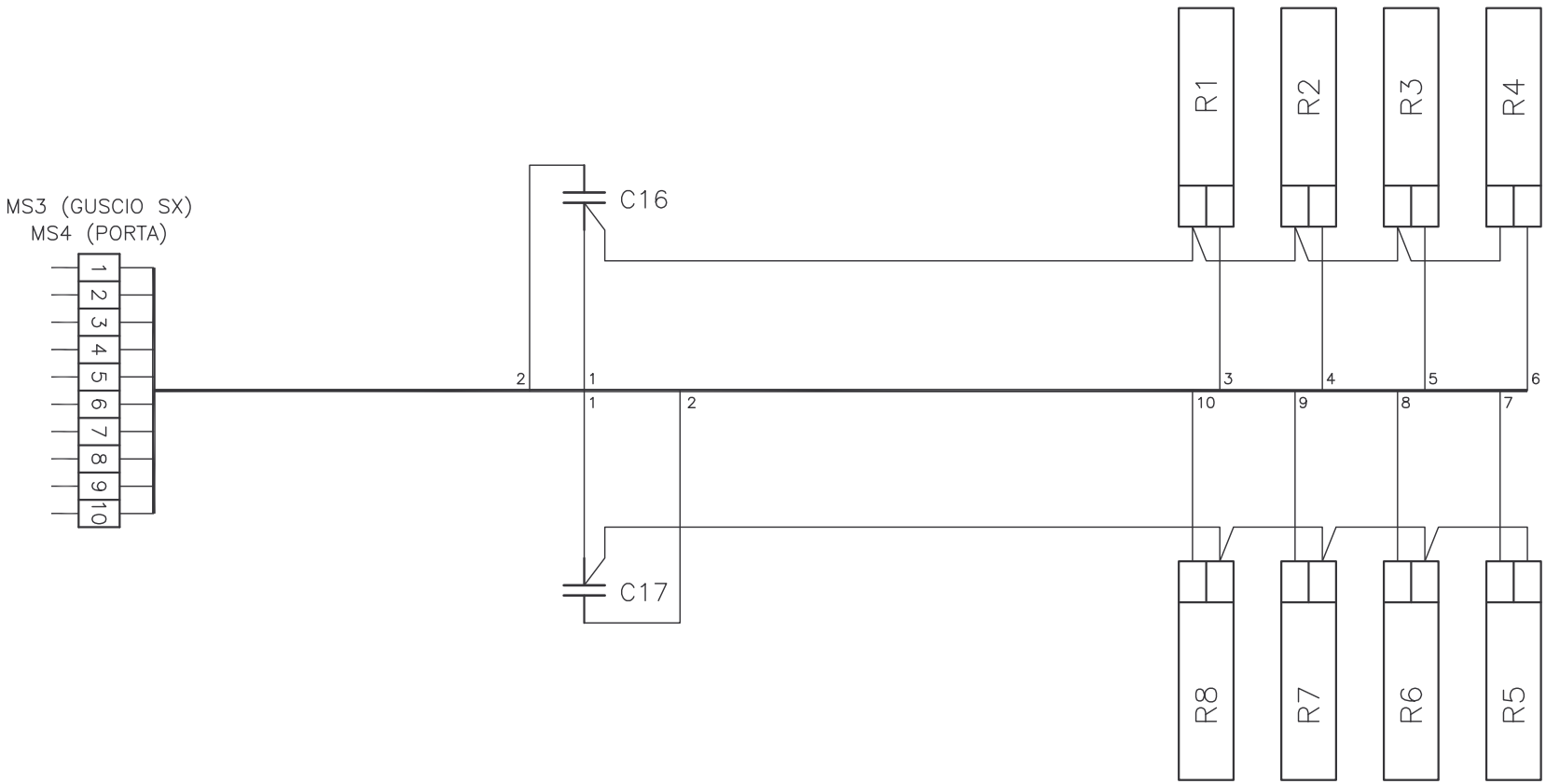
Schema: 4/10
Data: 01/11/05
Dis: A. COLAVITTI
Contr.: -
File: P029_4usa.dwg

LEGENDA APPARECCHIATURE	
C12–C13–C14–C15	N.4 CONDENSATORI DA 20 µF
A11–A12	N.2 REATTORI DA 600W ALTA PRESSIONE



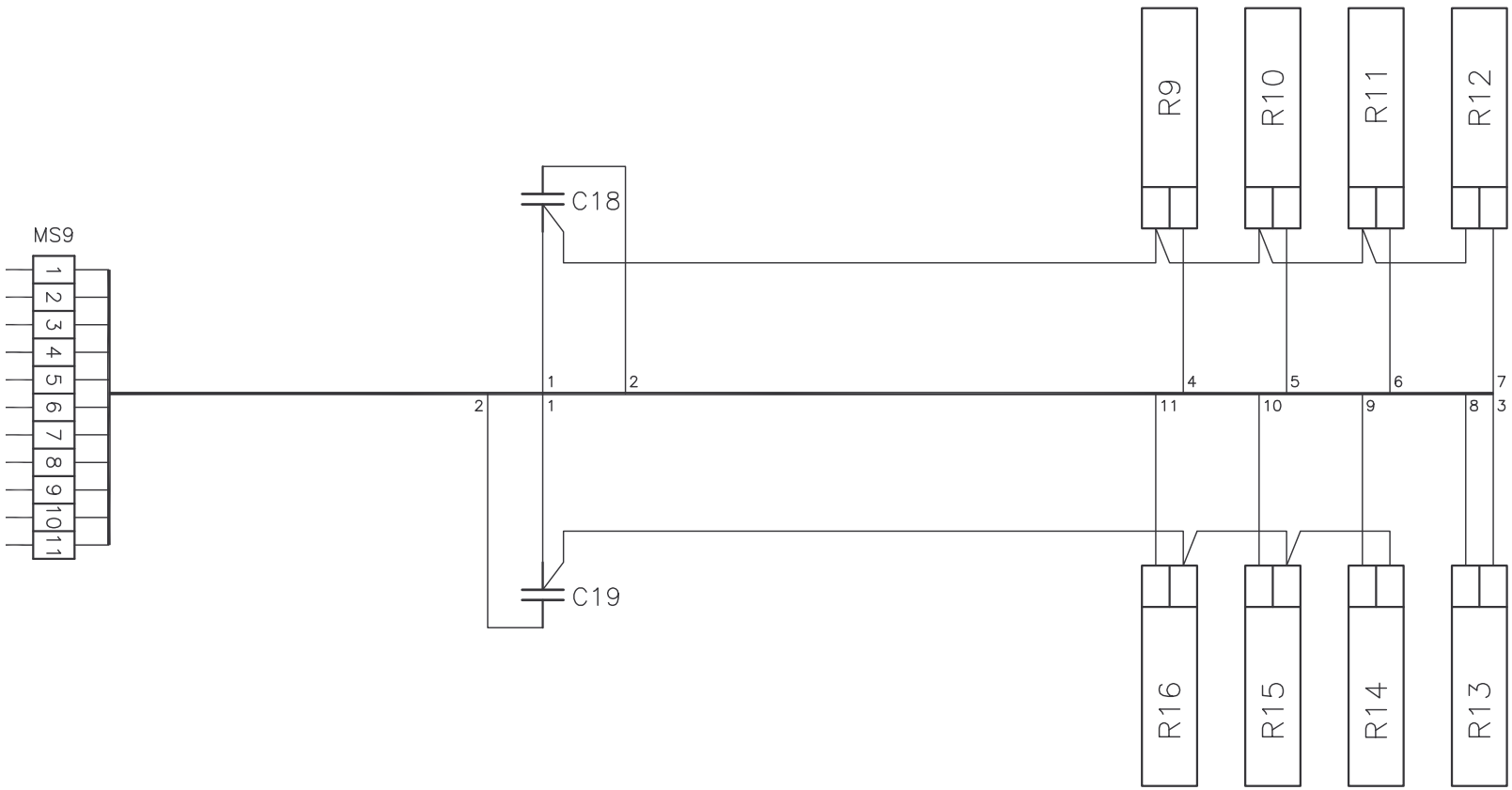
SPORTARREDO S.p.A. Via dell'Industria, 7 30020 GRUARO (VE) tel. 0421/767630 - fax 767635 PROPRIETA' RISERVATA DELLA DITTA SPORTARREDO E' vietato riprodurre o comunicare a terzi il contenuto del presente disegno	DESCRIZIONE: LAMIERA GUSCIO DESTRO N.4 BLECH RECHTE SHALE N°4 SHEET RIGHT SHELL N°4 TOLE COQUILLE DROITE N°4 CHAPA TAPA DERECHA N°4				Modello: RINGO MIX USA RESTYLING
					Schema: 5/10
CODICE: 10297.096.0.0 (230V 3F~ 60Hz) 10299.084.0.0 (230V MONO 60Hz) - -	Rif	Modifiche	Data	Firma	Data: 01/11/05
	a	-	-	-	Dis: A. COLAVITTI
	b	-	-	-	Contr.: -
CODICE CASS./CABL.: 14203.192.0.0	c	-	-	-	file: P029_5usa.dwg

LEGENDA APPARECCHIATURE	
C16-C17	N.2 CONDENSATORI DA 65 µF
R1-R2-R3-R4-R5-R6-R7-R8	N.8 REATTORI DA 160W BASSA PRESSIONE

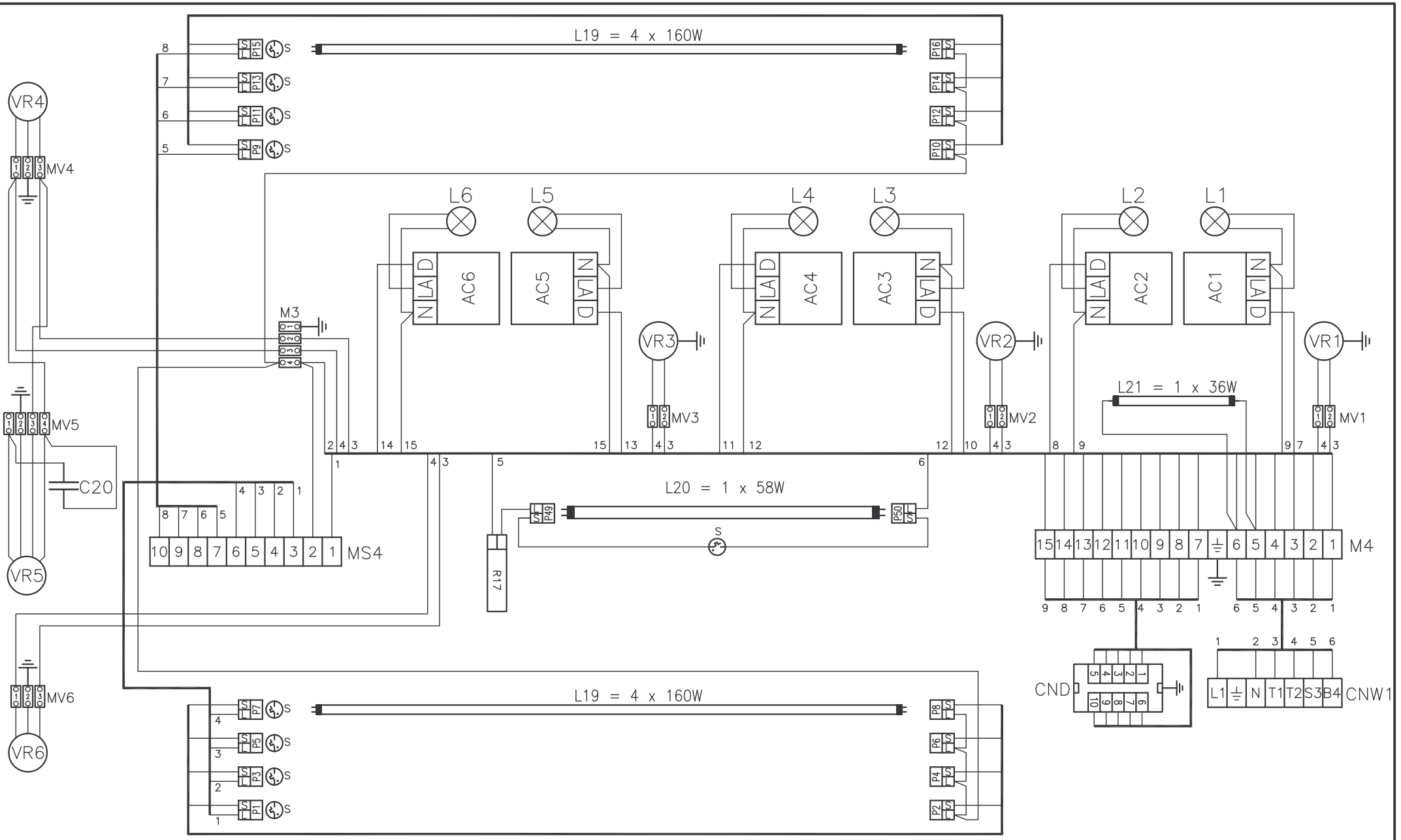


SPORTARREDO S.p.A. Via dell'Industria, 7 30020 GRUARO (VE) tel. 0421/767630 - fax 767635 PROPRIETA' RISERVATA DELLA DITTA SPORTARREDO E' vietato riprodurre o comunicare a terzi il contenuto del presente disegno	DESCRIZIONE: LAMIERA GUSCIO SINISTRO N.1 E GUSCIO PORTA N.7 UNTEREN BLECH LINKE SCHALE N°1 UND GEHAUSESCHEMA TUR LOWER SHEET LEFT SHELL N°1 AND SHELL DOOR N°7 TOLE INFERIEURE COQUILLE GAUCHE N°1 ET COQUILLE PORTE N°7 CHAPA INFERIOR TAPA IZQUIERDA N°1 Y CONCHA PUERTA N°7				Modello: RINGO MIX USA RESTYLING
CODICE: 10297.096.0.0 (230V 3F~ 60Hz) 10299.084.0.0 (230V MONO 60Hz) - -	Rif	Modifiche	Data	Firma	Schema: 6/10
	a	-	-	-	Data: 01/11/05
	b	-	-	-	Dis: A. COLAVITTI
CODICE CASS./CABL.: 14203.199.0.0	c	-	-	-	Contr.: -
					File: P029_6usa.dwg

LEGENDA APPARECCHIATURE	
C18–C19	N.2 CONDENSATORI DA 65 µF
R9–R10–R11–R12–R13–R14–R15–R16	N.8 REATTORI DA 160W BASSA PRESSIONE



SPORTARREDO S.p.A. Via dell'Industria, 7 30020 GRUARO (VE) tel. 0421/767630 - fax 767635 PROPRIETA' RISERVATA DELLA DITTA SPORTARREDO E' vietato riprodurre o comunicare a terzi il contenuto del presente disegno	DESCRIZIONE: LAMIERA INFERIORE GUSCIO DESTRO N.3 UNTEREN BLECH RECHTE SHALE N°3 LOWER SHEET RIGHT SHELL N°3 TOLE INFERIEURE COQUILLE DROITE N°3 CHAPA INFERIOR TAPA DERECHA N°3				Modello: RINGO MIX USA RESTYLING
					Schema: 7/10
CODICE: 10297.096.0.0 (230V 3F~ 60Hz) 10299.084.0.0 (230V MONO 60Hz) - -	Rif	Modifiche	Data	Firma	Data: 01/11/05
	a	-	-	-	Dis: A. COLAVITTI
	b	-	-	-	Contr.: -
CODICE CASS./CABL.: 14203.191.0.0	c	-	-	-	file: P029_7usa.dwg



LEGENDA APPARECCHIATURE	
R17	N.1 ALIMENTATORE DA 58W BASSA PRESSIONE
da AC1 a AC6	N.6 ACCENDITORI DA 600W
da L1 a L6	N.6 LAMPADA 600W ALTA PRESSIONE SERIE 630
L19	N.8 LAMPADA 160W BASSA PRESSIONE
L20	N.1 LAMPADA 58W BASSA PRESSIONE
L21	N.1 LAMPADA 36W BASSA PRESSIONE
C20	N.1 CONDENSATORE 2 µF

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PROPRIETA' RISERVATA DELLA DITTA SPORTARREDO
E'vietato riprodurre o comunicare a terzi
il contenuto del presente disegno

DESCRIZIONE: SCHEMA GUSCIO PORTA
GEHAUSESCHEMA TUR
SHELL DOOR DIAGRAM
SCHEMA COQUILLE PORTE
ESQUEMA CONCHA PUERTA

CODICE: 10297.096.0.0 (230V 3F~ 60Hz)
10299.084.0.0 (230V MONO 60Hz)
-
-

CODICE CASS./CABL.: 17273.409.0.0

Rif	Modifiche	Data	Firma
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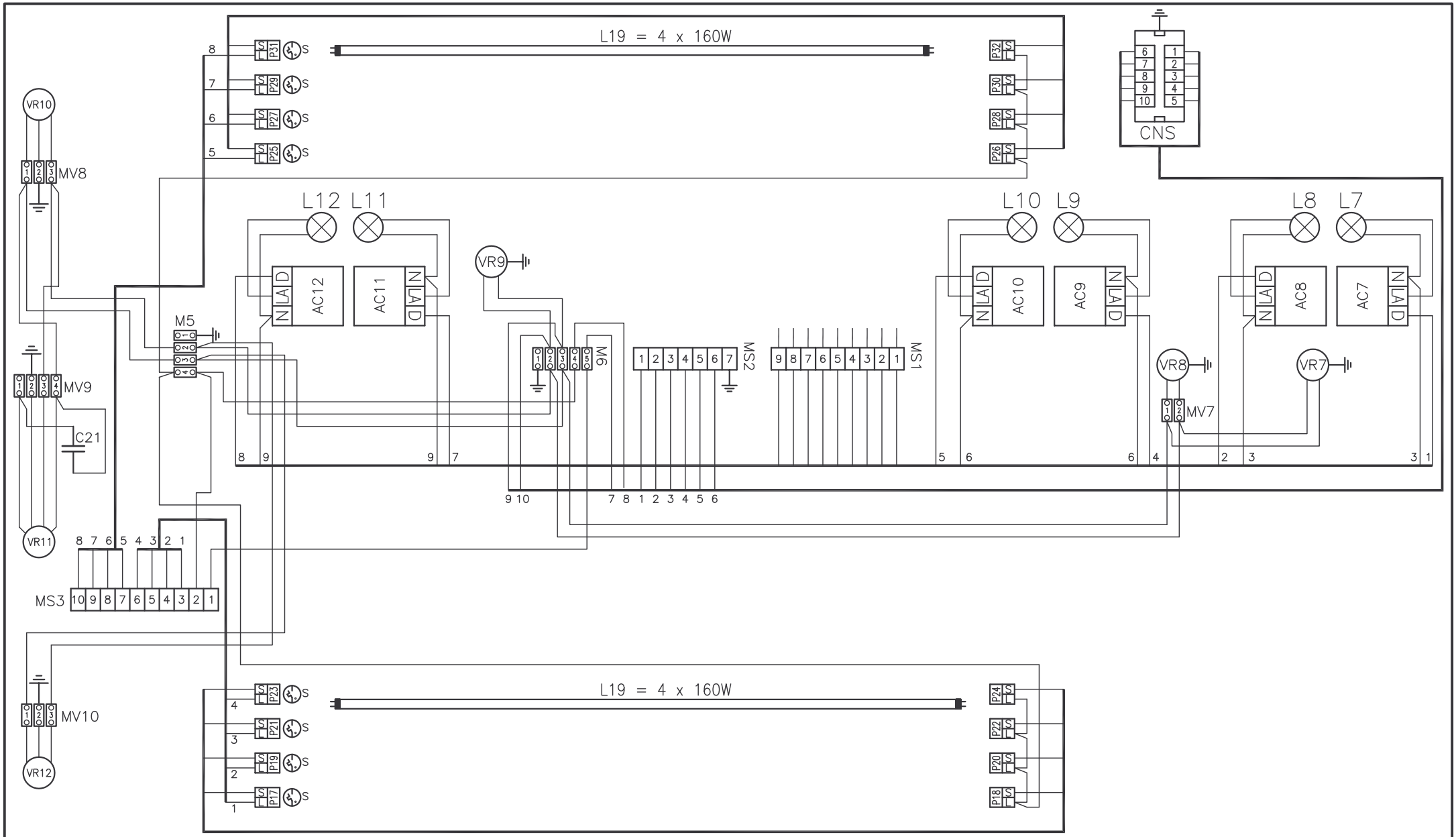
b	-	-	-
c	-	-	-

Modello: RINGO MIX USA RESTYLING
Schema: 8/10
Data: 01/11/05
Dis: A. COLAVITTI
Contr.: -
File: P029_8usa.dwg



LEGENDA APPARECCHIATURE	
AC7–AC8–AC9–AC10–AC11–AC12	N.6 ACCENDITORI DA 600W
da L7 a L12	N.6 LAMPADA 600W ALTA PRESSIONE SERIE 630
L19	N.8 LAMPADA 160W BASSA PRESSIONE
C21	N.1 CONDENSATORE 2 µF

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PROPRIETA' RISERVATA DELLA DITTA SPORTARREDO
E'vietato riprodurre o comunicare a terzi
il contenuto del presente disegno

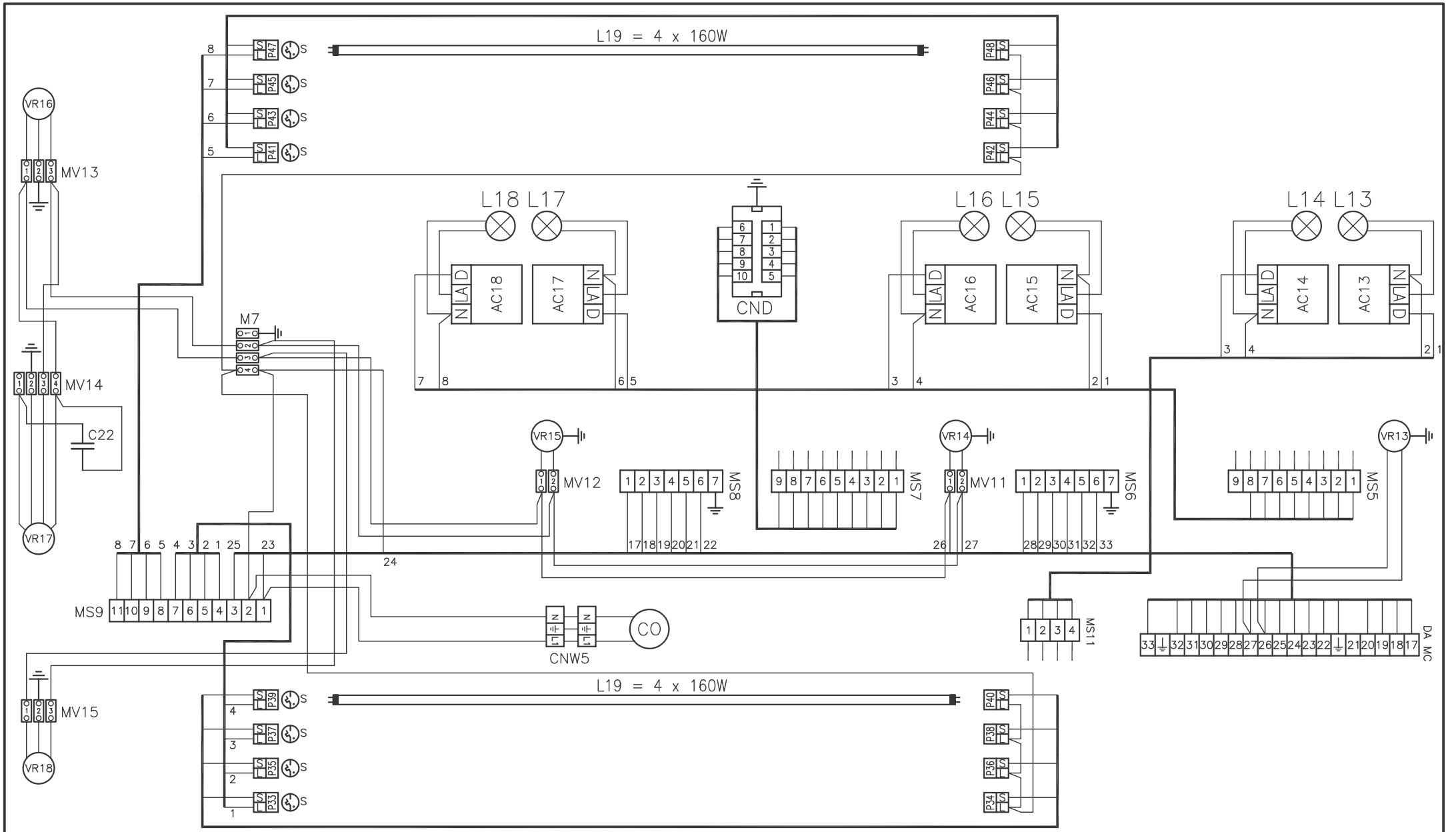
DESCRIZIONE: SCHEMA GUSCIO SINISTRO
LINKE SCHALE DIAGRAMM
LEFT SHELL DIAGRAM
SCHEMA COQUILLE GAUCHE
ESQUEMA TAPA IZQUIERDA

CODICE: 10297.096.0.0 (230V 3F~ 60Hz)
10299.084.0.0 (230V MONO 60Hz)
-
-

CODICE CASS./CABL.: 17273.408.0.0

Rif	Modifiche	Data	Firma
a	-	-	-
b	-	-	-
c	-	-	-

Modello: RINGO MIX USA RESTYLING
Schema: 9/10
Data: 01/11/05
Dis: A. COLAVITTI
Contr.: -
File: P029_9usa.dwg



LEGENDA APPARECCHIATURE	
AC13–AC14–AC15–AC16–AC17–AC18	N.6 ACCENDITORI DA 600W
da L13 a L18	N.6 LAMPADA 600W ALTA PRESSIONE SERIE 630
L19	N.8 LAMPADA 160W BASSA PRESSIONE
C22	N.1 CONDENSATORE 2 µF

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PROPRIETA' RISERVATA DELLA DITTA SPORTARREDO
E'vietato riprodurre o comunicare a terzi
il contenuto del presente disegno

DESCRIZIONE: SCHEMA GUSCIO DESTRO
RECHTE SCHALE DIAGRAMM
RIGHT SHELL DIAGRAM
SCHEMA COQUILLE DROITE
ESQUEMA TAPA DERECHA

CODICE: 10297.096.0.0 (230V 3F~ 60Hz)
10299.084.0.0 (230V MONO 60Hz)
-
-

CODICE CASS./CABL.: 17273.407.0.0

Rif	Modifiche	Data	Firma
a	-	-	-
b	-	-	-
c	-	-	-

Modello: RINGO MIX USA RESTYLING
Schema: 10/10
Data: 01/11/05
Dis: A. COLAVITTI
Contr.: -
File: P029_10usa.dwg